

SASSIN

Meters & Electrical Accessories





Company Profile

As one of the leading enterprises in the low voltage electrics field in China, Sassin International Electric Shanghai Co., Ltd is committed to offering professional solutions of low voltage electric and smart electricity for different fields customers from the countries and regions around the world, to satisfy worldwide customers' requirements on utilizing energy more safely and conveniently, help customers to constantly improve efficiency of production and energy, and reducing their impact on the environment.

Sassin focuses on the global market, driving the company development with technical R&D. Sassin is committed to researching and developing different low electric products to satisfy the different requirements from customers all over the world. With the trend of

intelligent electricity, Sassin has developed the smart electric devices and Smart Power Management System - SPMS to protect the safety of life and property, make the electricity management easily and remotely in any time at any place, and improve the power efficiency. In order to achieve the quick R&D, Sassin has set up the Test Center including a 10kA Short Circuit Breaking Laboratory, the Test Center has been certified by the CNAS (China National Accreditation Service for Conformity Assessment).

Quality is company's life. Sassin is always sparing no effort to promote the construction of quality management system and improve it. For this purpose, Sassin implemented the Total Quality Management System, and oriented by market and customers, to drive the employees and suppliers focusing on the continuous improvement of product quality. Sassin has been certified by the ISO9001 Quality Management System and ISO14001 Environment Management System.

Corporate Culture - Value System

Vision

Better Electric, Better Life.

Mission

Make electric safe, simple and efficient.

Value

Confidence, Faith, Credit.

Catalog Classification

V 27.1 Super Series

- **Power Distribution Electrics:** Air Circuit Breakers / Moulded Case Circuit Breakers / Automatic Transfer Switches
- **Modular DIN Rail Devices:** MCB / Residual Current Devices / Surge Protective Devices / Switching Devices / Distribution Boxes
- **Industrial Control And Protection:** Contactors / Starters / Thermal Overload Relays / Motor Protection Circuit Breakers



V 27.2 Pro Series

- **Power Distribution Electrics:** Air Circuit Breakers / Moulded Case Circuit Breakers / Automatic Transfer Switches
- **Modular DIN Rail Devices:** MCB / Residual Current Devices / Surge Protective Devices / Switching Devices / Distribution Boxes
- **Industrial Control And Protection:** Contactors / Starters / Thermal Overload Relays / Motor Protection Circuit Breakers



V 27.3 Echo Series

- **Power Distribution Electrics:** Air Circuit Breakers / Moulded Case Circuit Breakers / Automatic Transfer Switches
- **Modular DIN Rail Devices:** MCB / Residual Current Devices / Surge Protective Devices / Switching Devices / Distribution Boxes
- **Industrial Control And Protection:** Contactors / Starters / Thermal Overload Relays / Motor Protection Circuit Breakers



V 27.4 Switches and Relays

- Load Break Switches
- Fuse Combination Switches
- Fuse Disconnecter Switches
- Low Voltage Fuses
- Rotary Change-over Cam Switches
- Pushbutton Switches
- Switches
- Relays



V 27.5 Power Sources

- Automatic Voltage Stabilizers
- Voltage Regulators
- Compensated Voltage Stabilizers
- Pure Sine Wave Inverters
- Back Up UPS
- Switching Power Supplies
- Control Transformers



V 27.6 Meters & Electrical Accessories

- Electronic Kilowatt Hour Meters
- Power Capacitors
- Analogue Panel Meters
- Digital Panel Meters
- Current Transformers
- Metal Boxes
- Terminal Blocks
- PC Plug Socket Couplings
- Electric Bell & Buzzers



Catalog USB Memory Stick

All products in these catalogs listed above are available in USB memory stick.



Catalog PDF

www.sassin.com

All catalogs can be downloaded as PDF files from SASSIN website.



Meters & Electrical Accessories

P 1 **DDS989/DTS989 series electronic kilowatt hour meters**

Panel meters

P 2-12 **SE series analogue panel meters**

P 13 **SE series digital panel meters**

P 14 **MSQ series current transformers**

P 15-18 **BSMJ/BGMJ series power capacitors**

P 19-21 **3SM series universal metal boxes**

P 22 **Industrial plugs and sockets**

P 23-24 **3SP1 series, IP44/IP67**

P 25-26 **3SP2 series, IP67**

P 27-28 **3SP6 series, IP44**

P 29-30 **3SP6 series, IP67**

Electric bell & buzzers

P 31 **3S-B1 series electric bells**

P 32-33 **UC4 & SCF series electric bells**

P 34 **FM & MS buzzers**

Cable gland & water-resistant junction & insulators

P 35 **PG series cable gland**

P 35 **MG series water-resistant junctions**

P 35 **SM series insulators**

Terminal blocks

P 36 **JXB series**

P 36 **3SUK series**

P 37 **TB & TC series**

P 38 **HFW series**

P 39 **BBVC series terminal box**

P 40-43 **Preinsulated terminals**

P 44-54 **Index order code**




Electronic Kilowatt Hour Meters Series DDS989, DTS989

Technical specifications

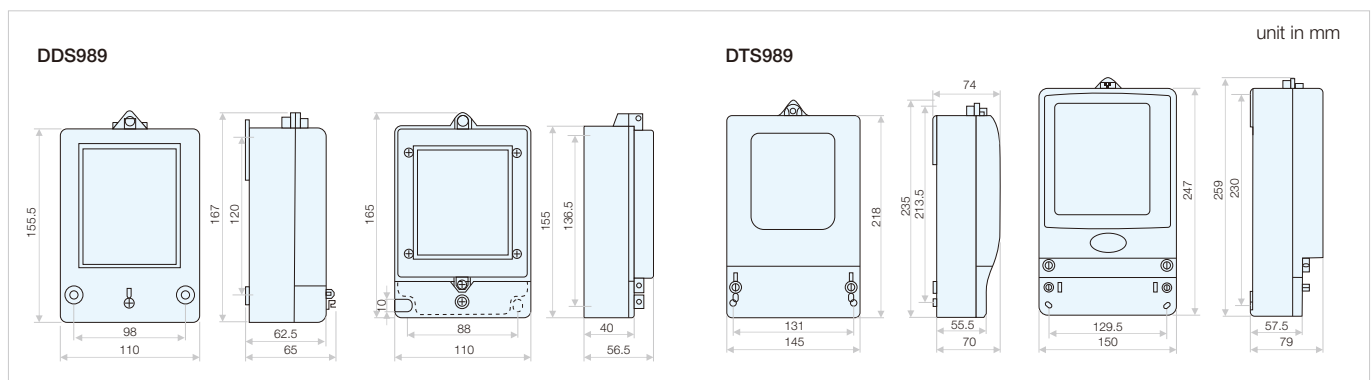
- Standards: IEC 62053-21, IEC 62056-21
- Accuracy (class): 1.0
- Starting conditions: Nominal frequency, 1.0 power factor, load current > 0.4 % nominal value. Equipped with electrical pulses and continuous electrical pulse display
- No-load rotation: It is regulated that within given time, there is no pulse output, while the voltage is more than 115 % of reference value and current circuit is off
- Mistake linearity: 5 % lb~Imax
- Rated voltage (V):
 - DDS989: 230
 - DTS989: 3x220/400
- Rated current (A):
 - DDS989: 1.5 (6), 2.5 (10), 5 (20), 10 (40), 5 (30), 10 (60), 15 (60), 20 (80)
 - DTS989: 3x1.5 (6), 3x3 (6), 3x5 (20), 3x10 (40), 3x15 (60), 3x5 (30), 3x10 (60)
- Frequency (Hz): 50/60
- Ambient temperature (°C): -5 ~ +55
- Storage and limit temperature (°C): -40 ~ +70
- Power loss:
 - voltage circuit ≤ 3 W and 10 VA
 - current circuit ≤ 4.0 VA



Selection and ordering data

	Rated voltage (V)	Phase	Rated current In (A)	Connection	Type code	Order code
	230	1	1.5 (6)	Directly input	DDS989 1.5 (6)A	31986
			2.5 (10)	Directly input	DDS989 2.5 (10)A	31987
			5 (20)	Directly input	DDS989 5 (20)A	31988
			10 (40)	Directly input	DDS989 10 (40)A	31989
			5 (30)	Directly input	DDS989 5 (30)A	31990
			10 (60)	Directly input	DDS989 10 (60)A	31991
			15 (60)	Directly input	DDS989 15 (60)A	31992
			20 (80)	Directly input	DDS989 20 (80)A	31993
	3x220/400	3	3x1.5 (6)	Through current transformer	DTS989 3x1.5 (6)	31994
			3x3 (6)	Through current transformer	DTS989 3x3 (6)	31995
			3x5 (20)	Directly input	DTS989 3x5 (20)	31996
			3x10 (40)	Directly input	DTS989 3x10 (40)	31997
			3x15 (60)	Directly input	DTS989 3x15 (60)	31998
			3x5 (30)	Directly input	DTS989 3x5 (30)	31999
			3x10 (60)	Directly input	DTS989 3x10 (60)	32000

Outline and installation dimensions



Analogue Panel Meters Series SE

Technical specifications

- Standard: IEC 60051-1
- Accuracy (class): 1.5/2.5
- Material:
 - External case: ABS plastic
 - Base: PPO
- Mechanical character: It can withstand vibration of acceleration 30 meters/second 2 with shock frequency 80-120 per minute 2 hours transportation
- Dielectric strength: AC voltage 50 Hz 2 KW, minute
- Voltage influence: When rated value changes $\pm 15\%$, the indicated value should not exceed the basic tolerance
- Operating position: Vertical
- Thermal resistance ($^{\circ}\text{C}$): 70 ~ 120
- Operating temperature ($^{\circ}\text{C}$): -20 ~ +40 relative humidity $\leq 80\%$



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Selection and ordering data

AC ammeters




Measure range (5A)	Connection type	SE-48		SE-72		SE-96	
		Type code	Order code	Type code	Order code	Type code	Order code
5	with CT	PM48A AT5	17365	PM72A AT5	17408	PM96A AT5	17494
10	with CT	PM48A AT10	17366	PM72A AT10	17409	PM96A AT10	17495
15	with CT	PM48A AT15	17367	PM72A AT15	17410	PM96A AT15	17496
20	with CT	PM48A AT20	17368	PM72A AT20	17411	PM96A AT20	17497
25	with CT	PM48A AT25	17369	PM72A AT25	17412	PM96A AT25	17498
30	with CT	PM48A AT30	17370	PM72A AT30	17413	PM96A AT30	17499
40	with CT	PM48A AT40	17371	PM72A AT40	17414	PM96A AT40	17500
50	with CT	PM48A AT50	17372	PM72A AT50	17415	PM96A AT50	17501
60	with CT	PM48A AT60	17373	PM72A AT60	17416	PM96A AT60	17502
75	with CT	PM48A AT75	17374	PM72A AT75	17417	PM96A AT75	17503
80	with CT	PM48A AT80	17375	PM72A AT80	17418	PM96A AT80	17504
100	with CT	PM48A AT100	17376	PM72A AT100	17419	PM96A AT100	17505
150	with CT	PM48A AT150	17377	PM72A AT150	17420	PM96A AT150	17506
200	with CT	PM48A AT200	17378	PM72A AT200	17421	PM96A AT200	17507
250	with CT	PM48A AT250	17379	PM72A AT250	17422	PM96A AT250	17508
300	with CT	PM48A AT300	17380	PM72A AT300	17423	PM96A AT300	17509
400	with CT	PM48A AT400	17381	PM72A AT400	17424	PM96A AT400	17510
500	with CT	PM48A AT500	17382	PM72A AT500	17425	PM96A AT500	17511
600	with CT	PM48A AT600	17383	PM72A AT600	17426	PM96A AT600	17512
750	with CT	PM48A AT750	17384	PM72A AT750	17427	PM96A AT750	17513
800	with CT	PM48A AT800	17385	PM72A AT800	17428	PM96A AT800	17514
1000	with CT	PM48A AT1000	17386	PM72A AT1000	17429	PM96A AT1000	17515
1200	with CT	PM48A AT1200	17387	PM72A AT1200	17430	PM96A AT1200	17516
1500	with CT	PM48A AT1500	17388	PM72A AT1500	17431	PM96A AT1500	17517
2000	with CT	PM48A AT2000	17389	PM72A AT2000	17432	PM96A AT2000	17518
2500	with CT	PM48A AT2500	17390	PM72A AT2500	17433	PM96A AT2500	17519
3000	with CT	PM48A AT3000	17391	PM72A AT3000	17434	PM96A AT3000	17520
4000	with CT	PM48A AT4000	17392	PM72A AT4000	17435	PM96A AT4000	17521
5000	with CT	PM48A AT5000	17393	PM72A AT5000	17436	PM96A AT5000	17522

Analogue Panel Meters Series SE

Selection and ordering data

AC ammeters

	Measure range (5A)	Connection type	SE-48		SE-72		SE-96	
			Type code	Order code	Type code	Order code	Type code	Order code
	10	direct	-	-	PM72A AD10	17444	PM96A AD10	17530
	20	direct	-	-	PM72A AD20	17445	PM96A AD20	17531
	25	direct	-	-	PM72A AD25	17446	PM96A AD25	17532
	30	direct	-	-	PM72A AD30	17447	PM96A AD30	17533
	40	direct	-	-	PM72A AD40	17448	PM96A AD40	17534
	50	direct	-	-	PM72A AD50	17449	PM96A AD50	17535
	60	direct	-	-	PM72A AD60	17450	PM96A AD60	17536
	75	direct	-	-	PM72A AD75	17451	PM96A AD75	17537
	100	direct	-	-	PM72A AD100	17452	PM96A AD100	17538


DC ammeters

5	direct	-	-	PM72A DD5	17402	PM96A DD5	17556
10	direct	-	-	PM72A DD10	17403	PM96A DD10	17557
15	direct	-	-	PM72A DD15	17404	PM96A DD15	17558
20	direct	-	-	PM72A DD20	17405	PM96A DD20	17559
25	direct	-	-	PM72A DD25	17406	PM96A DD25	17560
30	direct	-	-	PM72A DD30	17407	PM96A DD30	17561


AC voltmeters

	Measure range (V)	Connection type	SE-48		SE-72		SE-96	
			Type code	Order code	Type code	Order code	Type code	Order code
	150	with CT	PM48V AT150	17394	PM72V AT150	17438	PM96V AT150	17524
	250	with CT	PM48V AT250	17395	PM72V AT250	17439	PM96V AT250	17525
	300	with CT	PM48V AT300	17396	PM72V AT300	17440	PM96V AT300	17526
	450	with CT	PM48V AT450	17397	PM72V AT450	17441	PM96V AT450	17527
	500	with CT	PM48V AT500	17398	PM72V AT500	17442	PM96V AT500	17528
	600	with CT	PM48V AT600	17399	PM72V AT600	17443	PM96V AT600	17529

DC voltmeters

	10	direct	-	-	PM72V DD10	17453	PM96V DD10	17539
	15	direct	-	-	PM72V DD15	17454	PM96V DD15	17540
	20	direct	-	-	PM72V DD20	17455	PM96V DD20	17541
	30	direct	-	-	PM72V DD30	17456	PM96V DD30	17542
	40	direct	-	-	PM72V DD40	17457	PM96V DD40	17543
	50	direct	-	-	PM72V DD50	17458	PM96V DD50	17544
	60	direct	-	-	PM72V DD60	17459	PM96V DD60	17545
	75	direct	-	-	PM72V DD75	17460	PM96V DD75	17546
	100	direct	-	-	PM72V DD100	17461	PM96V DD100	17547
	150	direct	-	-	PM72V DD150	17462	PM96V DD150	17548
	200	direct	-	-	PM72V DD200	17463	PM96V DD200	17549
	250	direct	-	-	PM72V DD250	17464	PM96V DD250	17550
	300	direct	-	-	PM72V DD300	17465	PM96V DD300	17551
	400	direct	-	-	PM72V DD400	17466	PM96V DD400	17552
	450	direct	-	-	PM72V DD450	17467	PM96V DD450	17553
	500	direct	-	-	PM72V DD500	17468	PM96V DD500	17554
	600	direct	-	-	PM72V DD600	17469	PM96V DD600	17555

Frequency meters

	Measure range (Hz)	Rated voltage (V)	SE-48		SE-72		SE-96	
			Type code	Order code	Type code	Order code	Type code	Order code
	45-55	230	-	-	PM72F 45230	17486	PM96F 45230	17578
		400	-	-	PM72F 45400	17487	PM96F 45400	17579
	45-65	230	PM48F 46220	17400	PM72F 46230	17488	PM96F 46230	17580
		400	PM48F 46380	17401	PM72F 46400	17489	PM96F 46400	17581

Analogue Panel Meters Series SE

Selection and ordering data

Power factor meter



Measure range	Rated voltage (V)	SE-48		SE-72		SE-96	
		Type code	Order code	Type code	Order code	Type code	Order code
0.5cap-1-0.5ind	110	PM48P 515110	33177	PM72P 515110	33192	PM96P 515110	33207
	230	PM48P 515230	33182	PM72P 515230	33198	PM96P 515230	33212
	400	PM48P 515400	33187	PM72P 515400	33202	PM96P 515400	33217
0.3cap-1-0.4ind	110	PM48P 314110	33178	PM72P 314110	33193	PM96P 314110	33208
	230	PM48P 314230	33183	PM72P 314230	33199	PM96P 314230	33213
	400	PM48P 314400	33188	PM72P 314400	33203	PM96P 314400	33218

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Active power meter



Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96	
			Type code	Order code	Type code	Order code
Single phase	110	500	PM72WA 110SP500	33222	PM96WA 110SP500	33429
		1000	PM72WA 110SP1000	33223	PM96WA 110SP1000	33430
		1500	PM72WA 110SP1500	33224	PM96WA 110SP1500	33431
		2000	PM72WA 110SP2000	33225	PM96WA 110SP2000	33432
		2500	PM72WA 110SP2500	33226	PM96WA 110SP2500	33433
		3000	PM72WA 110SP3000	33227	PM96WA 110SP3000	33434
		4000	PM72WA 110SP4000	33228	PM96WA 110SP4000	33435
		5000	PM72WA 110SP5000	33229	PM96WA 110SP5000	33436
		6000	PM72WA 110SP6000	33230	PM96WA 110SP6000	33437
		8000	PM72WA 110SP8000	33231	PM96WA 110SP8000	33438
		10k	PM72WA 110SP10k	33232	PM96WA 110SP10k	33439
		15k	PM72WA 110SP15k	33233	PM96WA 110SP15k	33440
		20k	PM72WA 110SP20k	33234	PM96WA 110SP20k	33441
		25k	PM72WA 110SP25k	33235	PM96WA 110SP25k	33442
		30k	PM72WA 110SP30k	33236	PM96WA 110SP30k	33443
		40k	PM72WA 110SP40k	33237	PM96WA 110SP40k	33444
	50k	PM72WA 110SP50k	33238	PM96WA 110SP50k	33445	
	60k	PM72WA 110SP60k	33239	PM96WA 110SP60k	33446	
	80k	PM72WA 110SP80k	33240	PM96WA 110SP80k	33447	
	100k	PM72WA 110SP100k	33241	PM96WA 110SP100k	33448	
	150k	PM72WA 110SP150k	33242	PM96WA 110SP150k	33449	
	200k	PM72WA 110SP200k	33243	PM96WA 110SP200k	33450	
	250k	PM72WA 110SP250k	33244	PM96WA 110SP250k	33451	
	230	1000	PM72WA 230SP1000	33245	PM96WA 230SP1000	33452
		2000	PM72WA 230SP2000	33246	PM96WA 230SP2000	33453
		3000	PM72WA 230SP3000	33247	PM96WA 230SP3000	33454
		4000	PM72WA 230SP4000	33248	PM96WA 230SP4000	33455
		5000	PM72WA 230SP5000	33249	PM96WA 230SP5000	33456
		6000	PM72WA 230SP6000	33250	PM96WA 230SP6000	33457
		8000	PM72WA 230SP8000	33251	PM96WA 230SP8000	33458
		10k	PM72WA 230SP10k	33252	PM96WA 230SP10k	33459
		12k	PM72WA 230SP12k	33253	PM96WA 230SP12k	33460
16k		PM72WA 230SP16k	33254	PM96WA 230SP16k	33461	
20k		PM72WA 230SP20k	33255	PM96WA 230SP20k	33462	
30k		PM72WA 230SP30k	33256	PM96WA 230SP30k	33463	
40k		PM72WA 230SP40k	33257	PM96WA 230SP40k	33464	
50k		PM72WA 230SP50k	33258	PM96WA 230SP50k	33465	
60k		PM72WA 230SP60k	33259	PM96WA 230SP60k	33466	
80k		PM72WA 230SP80k	33260	PM96WA 230SP80k	33467	
100k	PM72WA 230SP100k	33261	PM96WA 230SP100k	33468		
120k	PM72WA 230SP120k	33262	PM96WA 230SP120k	33469		
160k	PM72WA 230SP160k	33263	PM96WA 230SP160k	33470		
200k	PM72WA 230SP200k	33264	PM96WA 230SP200k	33471		
300k	PM72WA 230SP300k	33265	PM96WA 230SP300k	33472		
400k	PM72WA 230SP400k	33266	PM96WA 230SP400k	33473		
500k	PM72WA 230SP500k	33267	PM96WA 230SP500k	33474		

Selection and ordering data

Active power meter

Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96	
			Type code	Order code	Type code	Order code
Single phase	400	2000	PM72WA 400SP2000	33268	PM96WA 400SP2000	33475
		4000	PM72WA 400SP4000	33269	PM96WA 400SP4000	33476
		6000	PM72WA 400SP6000	33270	PM96WA 400SP6000	33477
		8000	PM72WA 400SP8000	33271	PM96WA 400SP8000	33478
		10k	PM72WA 400SP10k	33272	PM96WA 400SP10k	33479
		12k	PM72WA 400SP12k	33273	PM96WA 400SP12k	33480
		16k	PM72WA 400SP16k	33274	PM96WA 400SP16k	33481
		20k	PM72WA 400SP20k	33275	PM96WA 400SP20k	33482
		24k	PM72WA 400SP24k	33276	PM96WA 400SP24k	33483
		32k	PM72WA 400SP32k	33277	PM96WA 400SP32k	33484
		40k	PM72WA 400SP40k	33278	PM96WA 400SP40k	33485
		60k	PM72WA 400SP60k	33279	PM96WA 400SP60k	33486
		80k	PM72WA 400SP80k	33280	PM96WA 400SP80k	33487
		100k	PM72WA 400SP100k	33281	PM96WA 400SP100k	33488
		120k	PM72WA 400SP120k	33282	PM96WA 400SP120k	33489
		160k	PM72WA 400SP160k	33283	PM96WA 400SP160k	33490
		200k	PM72WA 400SP200k	33284	PM96WA 400SP200k	33491
		240k	PM72WA 400SP240k	33285	PM96WA 400SP240k	33492
		320k	PM72WA 400SP320k	33286	PM96WA 400SP320k	33493
		400k	PM72WA 400SP400k	33287	PM96WA 400SP400k	33494
		600k	PM72WA 400SP600k	33288	PM96WA 400SP600k	33495
		800k	PM72WA 400SP800k	33289	PM96WA 400SP800k	33496
		1000k	PM72WA 400SP1000k	33290	PM96WA 400SP1000k	33497
		Three phase three wires	110	1000	PM72WA 110TT1000	33291
2000	PM72WA 110TT2000			33292	PM96WA 110TT2000	33499
3000	PM72WA 110TT3000			33293	PM96WA 110TT3000	33500
4000	PM72WA 110TT4000			33294	PM96WA 110TT4000	33501
5000	PM72WA 110TT5000			33295	PM96WA 110TT5000	33502
6000	PM72WA 110TT6000			33296	PM96WA 110TT6000	33503
8000	PM72WA 110TT8000			33297	PM96WA 110TT8000	33504
10k	PM72WA 110TT10k			33298	PM96WA 110TT10k	33505
12k	PM72WA 110TT12k			33299	PM96WA 110TT12k	33506
16k	PM72WA 110TT16k			33300	PM96WA 110TT16k	33507
20k	PM72WA 110TT20k			33301	PM96WA 110TT20k	33508
30k	PM72WA 110TT30k			33302	PM96WA 110TT30k	33509
40k	PM72WA 110TT40k			33303	PM96WA 110TT40k	33510
50k	PM72WA 110TT50k			33304	PM96WA 110TT50k	33511
60k	PM72WA 110TT60k			33305	PM96WA 110TT60k	33512
80k	PM72WA 110TT80k			33306	PM96WA 110TT80k	33513
100k	PM72WA 110TT100k			33307	PM96WA 110TT100k	33514
120k	PM72WA 110TT120k			33308	PM96WA 110TT120k	33515
160k	PM72WA 110TT160k			33309	PM96WA 110TT160k	33516
200k	PM72WA 110TT200k			33310	PM96WA 110TT200k	33517
300k	PM72WA 110TT300k			33311	PM96WA 110TT300k	33518
400k	PM72WA 110TT400k			33312	PM96WA 110TT400k	33519
500k	PM72WA 110TT500k			33313	PM96WA 110TT500k	33520



Analogue Panel Meters Series SE

Selection and ordering data

Active power meter

Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96			
			Type code	Order code	Type code	Order code		
Three phase three wires	230	2000	PM72WA 230TT2000	33314	PM96WA 230TT2000	33521		
		4000	PM72WA 230TT4000	33315	PM96WA 230TT4000	33522		
		6000	PM72WA 230TT6000	33316	PM96WA 230TT6000	33523		
		8000	PM72WA 230TT8000	33317	PM96WA 230TT8000	33524		
		10k	PM72WA 230TT10k	33318	PM96WA 230TT10k	33525		
		12k	PM72WA 230TT12k	33319	PM96WA 230TT12k	33526		
		16k	PM72WA 230TT16k	33320	PM96WA 230TT16k	33527		
		20k	PM72WA 230TT20k	33321	PM96WA 230TT20k	33528		
		24k	PM72WA 230TT24k	33322	PM96WA 230TT24k	33529		
		32k	PM72WA 230TT32k	33323	PM96WA 230TT32k	33530		
		40k	PM72WA 230TT40k	33324	PM96WA 230TT40k	33531		
		60k	PM72WA 230TT60k	33325	PM96WA 230TT60k	33532		
		80k	PM72WA 230TT80k	33326	PM96WA 230TT80k	33533		
		100k	PM72WA 230TT100k	33327	PM96WA 230TT100k	33534		
		120k	PM72WA 230TT120k	33328	PM96WA 230TT120k	33535		
		160k	PM72WA 230TT160k	33329	PM96WA 230TT160k	33536		
		200k	PM72WA 230TT200k	33330	PM96WA 230TT200k	33537		
		240k	PM72WA 230TT240k	33331	PM96WA 230TT240k	33538		
		320k	PM72WA 230TT320k	33332	PM96WA 230TT320k	33539		
		400k	PM72WA 230TT400k	33333	PM96WA 230TT400k	33540		
		600k	PM72WA 230TT600k	33334	PM96WA 230TT600k	33541		
		800k	PM72WA 230TT800k	33335	PM96WA 230TT800k	33542		
		1000k	PM72WA 230TT1000k	33336	PM96WA 230TT1000k	33543		
		400	400	4000	PM72WA 400TT4000	33337	PM96WA 400TT4000	33544
				8000	PM72WA 400TT8000	33338	PM96WA 400TT8000	33545
				12k	PM72WA 400TT12k	33339	PM96WA 400TT12k	33546
				16k	PM72WA 400TT16k	33340	PM96WA 400TT16k	33547
				20k	PM72WA 400TT20k	33341	PM96WA 400TT20k	33548
				24k	PM72WA 400TT24k	33342	PM96WA 400TT24k	33549
				32k	PM72WA 400TT32k	33343	PM96WA 400TT32k	33550
				40k	PM72WA 400TT40k	33344	PM96WA 400TT40k	33551
				48k	PM72WA 400TT48k	33345	PM96WA 400TT48k	33552
64k	PM72WA 400TT64k			33346	PM96WA 400TT64k	33553		
80k	PM72WA 400TT80k			33347	PM96WA 400TT80k	33554		
120k	PM72WA 400TT120k			33348	PM96WA 400TT120k	33555		
160k	PM72WA 400TT160k			33349	PM96WA 400TT160k	33556		
200k	PM72WA 400TT200k			33350	PM96WA 400TT200k	33557		
240k	PM72WA 400TT240k			33351	PM96WA 400TT240k	33558		
320k	PM72WA 400TT320k			33352	PM96WA 400TT320k	33559		
400k	PM72WA 400TT400k			33353	PM96WA 400TT400k	33560		
480k	PM72WA 400TT480k			33354	PM96WA 400TT480k	33561		
640k	PM72WA 400TT640k			33355	PM96WA 400TT640k	33562		
800k	PM72WA 400TT800k			33356	PM96WA 400TT800k	33563		
1200k	PM72WA 400TT1200k	33357	PM96WA 400TT1200k	33564				
1600k	PM72WA 400TT1600k	33358	PM96WA 400TT1600k	33565				
2000k	PM72WA 400TT2000k	33359	PM96WA 400TT2000k	33566				



Selection and ordering data

Active power meter

Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96			
			Type code	Order code	Type code	Order code		
Three phase four wires	110	1000	PM72WA 110TF1000	33360	PM96WA 110TF1000	33567		
		2000	PM72WA 110TF2000	33361	PM96WA 110TF2000	33568		
		3000	PM72WA 110TF3000	33362	PM96WA 110TF3000	33569		
		4000	PM72WA 110TF4000	33363	PM96WA 110TF4000	33570		
		5000	PM72WA 110TF5000	33364	PM96WA 110TF5000	33571		
		6000	PM72WA 110TF6000	33365	PM96WA 110TF6000	33572		
		8000	PM72WA 110TF8000	33366	PM96WA 110TF8000	33573		
		10k	PM72WA 110TF10k	33367	PM96WA 110TF10k	33574		
		12k	PM72WA 110TF12k	33368	PM96WA 110TF12k	33575		
		16k	PM72WA 110TF16k	33369	PM96WA 110TF16k	33576		
		20k	PM72WA 110TF20k	33370	PM96WA 110TF20k	33577		
		30k	PM72WA 110TF30k	33371	PM96WA 110TF30k	33578		
		40k	PM72WA 110TF40k	33372	PM96WA 110TF40k	33579		
		50k	PM72WA 110TF50k	33373	PM96WA 110TF50k	33580		
		60k	PM72WA 110TF60k	33374	PM96WA 110TF60k	33581		
		80k	PM72WA 110TF80k	33375	PM96WA 110TF80k	33582		
		100k	PM72WA 110TF100k	33376	PM96WA 110TF100k	33583		
		120k	PM72WA 110TF120k	33377	PM96WA 110TF120k	33584		
		160k	PM72WA 110TF160k	33378	PM96WA 110TF160k	33585		
		200k	PM72WA 110TF200k	33379	PM96WA 110TF200k	33586		
		300k	PM72WA 110TF300k	33380	PM96WA 110TF300k	33587		
		400k	PM72WA 110TF400k	33381	PM96WA 110TF400k	33588		
		500k	PM72WA 110TF500k	33382	PM96WA 110TF500k	33589		
		230	230	2000	PM72WA 230TF2000	33383	PM96WA 230TF2000	33590
				4000	PM72WA 230TF4000	33384	PM96WA 230TF4000	33591
				6000	PM72WA 230TF6000	33385	PM96WA 230TF6000	33592
				8000	PM72WA 230TF8000	33386	PM96WA 230TF8000	33593
				10k	PM72WA 230TF10k	33387	PM96WA 230TF10k	33594
				12k	PM72WA 230TF12k	33388	PM96WA 230TF12k	33595
				16k	PM72WA 230TF16k	33389	PM96WA 230TF16k	33596
				20k	PM72WA 230TF20k	33390	PM96WA 230TF20k	33597
				24k	PM72WA 230TF24k	33391	PM96WA 230TF24k	33598
				32k	PM72WA 230TF32k	33392	PM96WA 230TF32k	33599
40k	PM72WA 230TF40k			33393	PM96WA 230TF40k	33600		
60k	PM72WA 230TF60k			33394	PM96WA 230TF60k	33601		
80k	PM72WA 230TF80k			33395	PM96WA 230TF80k	33602		
100k	PM72WA 230TF100k			33396	PM96WA 230TF100k	33603		
120k	PM72WA 230TF120k			33397	PM96WA 230TF120k	33604		
160k	PM72WA 230TF160k			33398	PM96WA 230TF160k	33605		
200k	PM72WA 230TF200k			33399	PM96WA 230TF200k	33606		
240k	PM72WA 230TF240k			33400	PM96WA 230TF240k	33607		
320k	PM72WA 230TF320k			33401	PM96WA 230TF320k	33608		
400k	PM72WA 230TF400k			33402	PM96WA 230TF400k	33609		
600k	PM72WA 230TF600k			33403	PM96WA 230TF600k	33610		
800k	PM72WA 230TF800k	33404	PM96WA 230TF800k	33611				
1000k	PM72WA 230TF1000k	33405	PM96WA 230TF1000k	33612				



Analogue Panel Meters Series SE

Selection and ordering data

Active power meter

Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96	
			Type code	Order code	Type code	Order code
Three phase four wires	400	4000	PM72WA 400TF4000	33406	PM96WA 400TF4000	33613
		8000	PM72WA 400TF8000	33407	PM96WA 400TF8000	33614
		12k	PM72WA 400TF12k	33408	PM96WA 400TF12k	33615
		16k	PM72WA 400TF16k	33409	PM96WA 400TF16k	33616
		20k	PM72WA 400TF20k	33410	PM96WA 400TF20k	33617
		24k	PM72WA 400TF24k	33411	PM96WA 400TF24k	33618
		32k	PM72WA 400TF32k	33412	PM96WA 400TF32k	33619
		40k	PM72WA 400TF40k	33413	PM96WA 400TF40k	33620
		48k	PM72WA 400TF48k	33414	PM96WA 400TF48k	33621
		64k	PM72WA 400TF64k	33415	PM96WA 400TF64k	33622
		80k	PM72WA 400TF80k	33416	PM96WA 400TF80k	33623
		120k	PM72WA 400TF120k	33417	PM96WA 400TF120k	33624
		160k	PM72WA 400TF160k	33418	PM96WA 400TF160k	33625
		200k	PM72WA 400TF200k	33419	PM96WA 400TF200k	33626
		240k	PM72WA 400TF240k	33420	PM96WA 400TF240k	33627
		320k	PM72WA 400TF320k	33421	PM96WA 400TF320k	33628
		400k	PM72WA 400TF400k	33422	PM96WA 400TF400k	33629
		480k	PM72WA 400TF480k	33423	PM96WA 400TF480k	33630
		640k	PM72WA 400TF640k	33424	PM96WA 400TF640k	33631
		800k	PM72WA 400TF800k	33425	PM96WA 400TF800k	33632
1200k	PM72WA 400TF1200k	33426	PM96WA 400TF1200k	33633		
1600k	PM72WA 400TF1600k	33427	PM96WA 400TF1600k	33634		
2000k	PM72WA 400TF2000k	33428	PM96WA 400TF2000k	33635		

Reactive power meter



Phase	Rated voltage (V)	Rated measuring range (W)	Type code	Order code	Type code	Order code
Single phase	110	500	PM72VA 110SP500	33636	PM96VA 110SP500	33843
		1000	PM72VA 110SP1000	33637	PM96VA 110SP1000	33844
		1500	PM72VA 110SP1500	33638	PM96VA 110SP1500	33845
		2000	PM72VA 110SP2000	33639	PM96VA 110SP2000	33846
		2500	PM72VA 110SP2500	33640	PM96VA 110SP2500	33847
		3000	PM72VA 110SP3000	33641	PM96VA 110SP3000	33848
		4000	PM72VA 110SP4000	33642	PM96VA 110SP4000	33849
		5000	PM72VA 110SP5000	33643	PM96VA 110SP5000	33850
		6000	PM72VA 110SP6000	33644	PM96VA 110SP6000	33851
		8000	PM72VA 110SP8000	33645	PM96VA 110SP8000	33852
		10k	PM72VA 110SP10k	33646	PM96VA 110SP10k	33853
		15k	PM72VA 110SP15k	33647	PM96VA 110SP15k	33854
		20k	PM72VA 110SP20k	33648	PM96VA 110SP20k	33855
		25k	PM72VA 110SP25k	33649	PM96VA 110SP25k	33856
		30k	PM72VA 110SP30k	33650	PM96VA 110SP30k	33857
		40k	PM72VA 110SP40k	33651	PM96VA 110SP40k	33858
		50k	PM72VA 110SP50k	33652	PM96VA 110SP50k	33859
		60k	PM72VA 110SP60k	33653	PM96VA 110SP60k	33860
		80k	PM72VA 110SP80k	33654	PM96VA 110SP80k	33861
		100k	PM72VA 110SP100k	33655	PM96VA 110SP100k	33862
150k	PM72VA 110SP150k	33656	PM96VA 110SP150k	33863		
200k	PM72VA 110SP200k	33657	PM96VA 110SP200k	33864		
250k	PM72VA 110SP250k	33658	PM96VA 110SP250k	33865		

Selection and ordering data

Reactive power meter



Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96			
			Type code	Order code	Type code	Order code		
Single phase	230	1000	PM72VA 230SP1000	33659	PM96VA 230SP1000	33866		
		2000	PM72VA 230SP2000	33660	PM96VA 230SP2000	33867		
		3000	PM72VA 230SP3000	33661	PM96VA 230SP3000	33868		
		4000	PM72VA 230SP4000	33662	PM96VA 230SP4000	33869		
		5000	PM72VA 230SP5000	33663	PM96VA 230SP5000	33870		
		6000	PM72VA 230SP6000	33664	PM96VA 230SP6000	33871		
		8000	PM72VA 230SP8000	33665	PM96VA 230SP8000	33872		
		10k	PM72VA 230SP10k	33666	PM96VA 230SP10k	33873		
		12k	PM72VA 230SP12k	33667	PM96VA 230SP12k	33874		
		16k	PM72VA 230SP16k	33668	PM96VA 230SP16k	33875		
		20k	PM72VA 230SP20k	33669	PM96VA 230SP20k	33876		
		30k	PM72VA 230SP30k	33670	PM96VA 230SP30k	33877		
		40k	PM72VA 230SP40k	33671	PM96VA 230SP40k	33878		
		50k	PM72VA 230SP50k	33672	PM96VA 230SP50k	33879		
		60k	PM72VA 230SP60k	33673	PM96VA 230SP60k	33880		
		80k	PM72VA 230SP80k	33674	PM96VA 230SP80k	33881		
		100k	PM72VA 230SP100k	33675	PM96VA 230SP100k	33882		
		120k	PM72VA 230SP120k	33676	PM96VA 230SP120k	33883		
		160k	PM72VA 230SP160k	33677	PM96VA 230SP160k	33884		
		200k	PM72VA 230SP200k	33678	PM96VA 230SP200k	33885		
		300k	PM72VA 230SP300k	33679	PM96VA 230SP300k	33886		
		400k	PM72VA 230SP400k	33680	PM96VA 230SP400k	33887		
		500k	PM72VA 230SP500k	33681	PM96VA 230SP500k	33888		
		400	400	2000	PM72VA 400SP2000	33682	PM96VA 400SP2000	33889
				4000	PM72VA 400SP4000	33683	PM96VA 400SP4000	33890
				6000	PM72VA 400SP6000	33684	PM96VA 400SP6000	33891
				8000	PM72VA 400SP8000	33685	PM96VA 400SP8000	33892
				10k	PM72VA 400SP10k	33686	PM96VA 400SP10k	33893
				12k	PM72VA 400SP12k	33687	PM96VA 400SP12k	33894
				16k	PM72VA 400SP16k	33688	PM96VA 400SP16k	33895
20k	PM72VA 400SP20k			33689	PM96VA 400SP20k	33896		
24k	PM72VA 400SP24k			33690	PM96VA 400SP24k	33897		
32k	PM72VA 400SP32k			33691	PM96VA 400SP32k	33898		
40k	PM72VA 400SP40k			33692	PM96VA 400SP40k	33899		
60k	PM72VA 400SP60k			33693	PM96VA 400SP60k	33900		
80k	PM72VA 400SP80k			33694	PM96VA 400SP80k	33901		
100k	PM72VA 400SP100k			33695	PM96VA 400SP100k	33902		
120k	PM72VA 400SP120k			33696	PM96VA 400SP120k	33903		
160k	PM72VA 400SP160k			33697	PM96VA 400SP160k	33904		
200k	PM72VA 400SP200k			33698	PM96VA 400SP200k	33905		
240k	PM72VA 400SP240k			33699	PM96VA 400SP240k	33906		
320k	PM72VA 400SP320k			33700	PM96VA 400SP320k	33907		
400k	PM72VA 400SP400k			33701	PM96VA 400SP400k	33908		
600k	PM72VA 400SP600k	33702	PM96VA 400SP600k	33909				
800k	PM72VA 400SP800k	33703	PM96VA 400SP800k	33910				
1000k	PM72VA 400SP1000k	33704	PM96VA 400SP1000k	33911				

Analogue Panel Meters Series SE

Selection and ordering data

Reactive power meter



Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96			
			Type code	Order code	Type code	Order code		
Three phase three wires	110	1000	PM72VA 110TT1000	33705	PM96VA 110TT1000	33912		
		2000	PM72VA 110TT2000	33706	PM96VA 110TT2000	33913		
		3000	PM72VA 110TT3000	33707	PM96VA 110TT3000	33914		
		4000	PM72VA 110TT4000	33708	PM96VA 110TT4000	33915		
		5000	PM72VA 110TT5000	33709	PM96VA 110TT5000	33916		
		6000	PM72VA 110TT6000	33710	PM96VA 110TT6000	33917		
		8000	PM72VA 110TT8000	33711	PM96VA 110TT8000	33918		
		10k	PM72VA 110TT10k	33712	PM96VA 110TT10k	33919		
		12k	PM72VA 110TT12k	33713	PM96VA 110TT12k	33920		
		16k	PM72VA 110TT16k	33714	PM96VA 110TT16k	33921		
		20k	PM72VA 110TT20k	33715	PM96VA 110TT20k	33922		
		30k	PM72VA 110TT30k	33716	PM96VA 110TT30k	33923		
		40k	PM72VA 110TT40k	33717	PM96VA 110TT40k	33924		
		50k	PM72VA 110TT50k	33718	PM96VA 110TT50k	33925		
		60k	PM72VA 110TT60k	33719	PM96VA 110TT60k	33926		
		80k	PM72VA 110TT80k	33720	PM96VA 110TT80k	33927		
		100k	PM72VA 110TT100k	33721	PM96VA 110TT100k	33928		
		120k	PM72VA 110TT120k	33722	PM96VA 110TT120k	33929		
		160k	PM72VA 110TT160k	33723	PM96VA 110TT160k	33930		
		200k	PM72VA 110TT200k	33724	PM96VA 110TT200k	33931		
		300k	PM72VA 110TT300k	33725	PM96VA 110TT300k	33932		
		400k	PM72VA 110TT400k	33726	PM96VA 110TT400k	33933		
		500k	PM72VA 110TT500k	33727	PM96VA 110TT500k	33934		
			230	2000	PM72VA 230TT2000	33728	PM96VA 230TT2000	33935
				4000	PM72VA 230TT4000	33729	PM96VA 230TT4000	33936
				6000	PM72VA 230TT6000	33730	PM96VA 230TT6000	33937
8000	PM72VA 230TT8000			33731	PM96VA 230TT8000	33938		
10k	PM72VA 230TT10k			33732	PM96VA 230TT10k	33939		
12k	PM72VA 230TT12k			33733	PM96VA 230TT12k	33940		
16k	PM72VA 230TT16k			33734	PM96VA 230TT16k	33941		
20k	PM72VA 230TT20k			33735	PM96VA 230TT20k	33942		
24k	PM72VA 230TT24k			33736	PM96VA 230TT24k	33943		
32k	PM72VA 230TT32k			33737	PM96VA 230TT32k	33944		
40k	PM72VA 230TT40k			33738	PM96VA 230TT40k	33945		
60k	PM72VA 230TT60k			33739	PM96VA 230TT60k	33946		
80k	PM72VA 230TT80k			33740	PM96VA 230TT80k	33947		
100k	PM72VA 230TT100k			33741	PM96VA 230TT100k	33948		
120k	PM72VA 230TT120k			33742	PM96VA 230TT120k	33949		
160k	PM72VA 230TT160k			33743	PM96VA 230TT160k	33950		
200k	PM72VA 230TT200k			33744	PM96VA 230TT200k	33951		
240k	PM72VA 230TT240k			33745	PM96VA 230TT240k	33952		
320k	PM72VA 230TT320k			33746	PM96VA 230TT320k	33953		
400k	PM72VA 230TT400k			33747	PM96VA 230TT400k	33954		
600k	PM72VA 230TT600k			33748	PM96VA 230TT600k	33955		
800k	PM72VA 230TT800k			33749	PM96VA 230TT800k	33956		
1000k	PM72VA 230TT1000k			33750	PM96VA 230TT1000k	33957		

Selection and ordering data

Reactive power meter



Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96	
			Type code	Order code	Type code	Order code
Three phase three wires	400	4000	PM72VA 400TT4000	33751	PM96VA 400TT4000	33958
		8000	PM72VA 400TT8000	33752	PM96VA 400TT8000	33959
		12k	PM72VA 400TT12k	33753	PM96VA 400TT12k	33960
		16k	PM72VA 400TT16k	33754	PM96VA 400TT16k	33961
		20k	PM72VA 400TT20k	33755	PM96VA 400TT20k	33962
		24k	PM72VA 400TT24k	33756	PM96VA 400TT24k	33963
		32k	PM72VA 400TT32k	33757	PM96VA 400TT32k	33964
		40k	PM72VA 400TT40k	33758	PM96VA 400TT40k	33965
		48k	PM72VA 400TT48k	33759	PM96VA 400TT48k	33966
		64k	PM72VA 400TT64k	33760	PM96VA 400TT64k	33967
		80k	PM72VA 400TT80k	33761	PM96VA 400TT80k	33968
		120k	PM72VA 400TT120k	33762	PM96VA 400TT120k	33969
		160k	PM72VA 400TT160k	33763	PM96VA 400TT160k	33970
		200k	PM72VA 400TT200k	33764	PM96VA 400TT200k	33971
		240k	PM72VA 400TT240k	33765	PM96VA 400TT240k	33972
		320k	PM72VA 400TT320k	33766	PM96VA 400TT320k	33973
		400k	PM72VA 400TT400k	33767	PM96VA 400TT400k	33974
		480k	PM72VA 400TT480k	33768	PM96VA 400TT480k	33975
		640k	PM72VA 400TT640k	33769	PM96VA 400TT640k	33976
		800k	PM72VA 400TT800k	33770	PM96VA 400TT800k	33977
1200k	PM72VA 400TT1200k	33771	PM96VA 400TT1200k	33978		
1600k	PM72VA 400TT1600k	33772	PM96VA 400TT1600k	33979		
2000k	PM72VA 400TT2000k	33773	PM96VA 400TT2000k	33980		
Three phase four wires	110	1000	PM72VA 110TF1000	33774	PM96VA 110TF1000	33981
		2000	PM72VA 110TF2000	33775	PM96VA 110TF2000	33982
		3000	PM72VA 110TF3000	33776	PM96VA 110TF3000	33983
		4000	PM72VA 110TF4000	33777	PM96VA 110TF4000	33984
		5000	PM72VA 110TF5000	33778	PM96VA 110TF5000	33985
		6000	PM72VA 110TF6000	33779	PM96VA 110TF6000	33986
		8000	PM72VA 110TF8000	33780	PM96VA 110TF8000	33987
		10k	PM72VA 110TF10k	33781	PM96VA 110TF10k	33988
		12k	PM72VA 110TF12k	33782	PM96VA 110TF12k	33989
		16k	PM72VA 110TF16k	33783	PM96VA 110TF16k	33990
		20k	PM72VA 110TF20k	33784	PM96VA 110TF20k	33991
		30k	PM72VA 110TF30k	33785	PM96VA 110TF30k	33992
		40k	PM72VA 110TF40k	33786	PM96VA 110TF40k	33993
		50k	PM72VA 110TF50k	33787	PM96VA 110TF50k	33994
		60k	PM72VA 110TF60k	33788	PM96VA 110TF60k	33995
		80k	PM72VA 110TF80k	33789	PM96VA 110TF80k	33996
		100k	PM72VA 110TF100k	33790	PM96VA 110TF100k	33997
		120k	PM72VA 110TF120k	33791	PM96VA 110TF120k	33998
		160k	PM72VA 110TF160k	33792	PM96VA 110TF160k	33999
		200k	PM72VA 110TF200k	33793	PM96VA 110TF200k	34000
300k	PM72VA 110TF300k	33794	PM96VA 110TF300k	34001		
400k	PM72VA 110TF400k	33795	PM96VA 110TF400k	34002		
500k	PM72VA 110TF500k	33796	PM96VA 110TF500k	34003		

Analogue Panel Meters Series SE

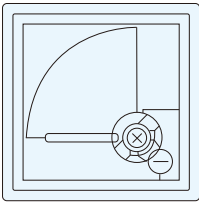
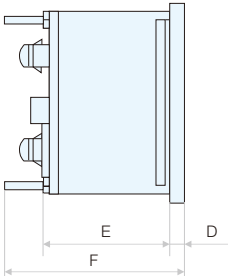
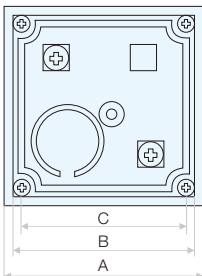
Selection and ordering data

Reactive power meter



Phase	Rated voltage (V)	Rated measuring range (W)	SE-72		SE-96			
			Type code	Order code	Type code	Order code		
Three phase four wires	230	2000	PM72VA 230TF2000	33797	PM96VA 230TF2000	34004		
		4000	PM72VA 230TF4000	33798	PM96VA 230TF4000	34005		
		6000	PM72VA 230TF6000	33799	PM96VA 230TF6000	34006		
		8000	PM72VA 230TF8000	33800	PM96VA 230TF8000	34007		
		10k	PM72VA 230TF10k	33801	PM96VA 230TF10k	34008		
		12k	PM72VA 230TF12k	33802	PM96VA 230TF12k	34009		
		16k	PM72VA 230TF16k	33803	PM96VA 230TF16k	34010		
		20k	PM72VA 230TF20k	33804	PM96VA 230TF20k	34011		
		24k	PM72VA 230TF24k	33805	PM96VA 230TF24k	34012		
		32k	PM72VA 230TF32k	33806	PM96VA 230TF32k	34013		
		40k	PM72VA 230TF40k	33807	PM96VA 230TF40k	34014		
		60k	PM72VA 230TF60k	33808	PM96VA 230TF60k	34015		
		80k	PM72VA 230TF80k	33809	PM96VA 230TF80k	34016		
		100k	PM72VA 230TF100k	33810	PM96VA 230TF100k	34017		
		120k	PM72VA 230TF120k	33811	PM96VA 230TF120k	34018		
		160k	PM72VA 230TF160k	33812	PM96VA 230TF160k	34019		
		200k	PM72VA 230TF200k	33813	PM96VA 230TF200k	34020		
		240k	PM72VA 230TF240k	33814	PM96VA 230TF240k	34021		
		320k	PM72VA 230TF320k	33815	PM96VA 230TF320k	34022		
		400k	PM72VA 230TF400k	33816	PM96VA 230TF400k	34023		
		600k	PM72VA 230TF600k	33817	PM96VA 230TF600k	34024		
		800k	PM72VA 230TF800k	33818	PM96VA 230TF800k	34025		
		1000k	PM72VA 230TF1000k	33819	PM96VA 230TF1000k	34026		
		400	400	4000	PM72VA 400TF4000	33820	PM96VA 400TF4000	34027
				8000	PM72VA 400TF8000	33821	PM96VA 400TF8000	34028
				12k	PM72VA 400TF12k	33822	PM96VA 400TF12k	34029
				16k	PM72VA 400TF16k	33823	PM96VA 400TF16k	34030
				20k	PM72VA 400TF20k	33824	PM96VA 400TF20k	34031
				24k	PM72VA 400TF24k	33825	PM96VA 400TF24k	34032
				32k	PM72VA 400TF32k	33826	PM96VA 400TF32k	34033
				40k	PM72VA 400TF40k	33827	PM96VA 400TF40k	34034
				48k	PM72VA 400TF48k	33828	PM96VA 400TF48k	34035
				64k	PM72VA 400TF64k	33829	PM96VA 400TF64k	34036
80k	PM72VA 400TF80k			33830	PM96VA 400TF80k	34037		
120k	PM72VA 400TF120k			33831	PM96VA 400TF120k	34038		
160k	PM72VA 400TF160k			33832	PM96VA 400TF160k	34039		
200k	PM72VA 400TF200k			33833	PM96VA 400TF200k	34040		
240k	PM72VA 400TF240k			33834	PM96VA 400TF240k	34041		
320k	PM72VA 400TF320k			33835	PM96VA 400TF320k	34042		
400k	PM72VA 400TF400k			33836	PM96VA 400TF400k	34043		
480k	PM72VA 400TF480k			33837	PM96VA 400TF480k	34044		
640k	PM72VA 400TF640k			33838	PM96VA 400TF640k	34045		
800k	PM72VA 400TF800k			33839	PM96VA 400TF800k	34046		
1200k	PM72VA 400TF1200k	33840	PM96VA 400TF1200k	34047				
1600k	PM72VA 400TF1600k	33841	PM96VA 400TF1600k	34048				
2000k	PM72VA 400TF2000k	33842	PM96VA 400TF2000k	34049				

Outline and installation dimensions

unit in mm

Type	A	B	C	D	E	F	Hole
SE-96-3#	96	91	90	5.5	65	43	92x92
SE-72-3#	72	67	66	5.5	65	43	68x68
SE-48-3#	48	43	42	5.5	65	43	45x45

Technical specifications

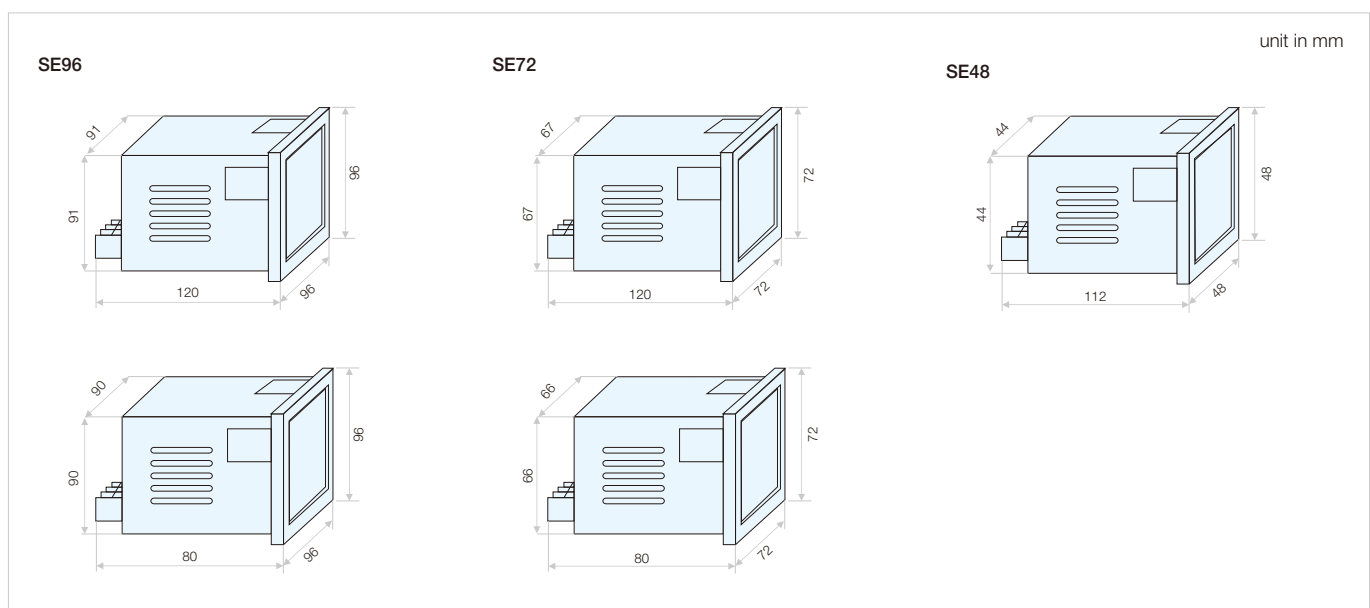
- Standard: ICS 17.220.20
- Accuracy: $\pm 0.5\%$
- Measurement display method: 3 and a half digits LED
- Display range: 0~1999
- Working power: AC 220 V $\pm 10\%$ 50/60 Hz
- Measuring range:
 - AC voltmeter: AC 0-600 V, AC 0-200 V (199.9 V), AC 0-20 V (19.99 V)
 - DC voltmeter: DC 0-600 V, DC 0-200 V (199.9 V), DC 0-20 V (19.99 V), DC 0-2 V (1.999 V)
 - AC ammeter: AC0-20 A (direct), external CT is needed for meter more than 20 A
 - DC ammeter: DC0-20 A (direct), external shunt is necessary of more than 20 A
- Frequency meter (Hz): 10.0-999.9 or 10.00-99.99
- Max signal consumption (VA): < 0.5
- Hi-pot testing (V/min): AC 2000/1
- Operating temperature (°C): 0 ~ +40
- Storage temperature (°C): -25 ~ +40



Selection and ordering data

Items	SE-48		SE-72		SE-96	
	Type code	Order code	Type code	Order code	Type code	Order code
Digital Panel Meter						
AC ammeter	DPM48AA	34050	DPM72AA	34055	DPM96AA	34068
DC ammeter	DPM48AD	34051	DPM72AD	34056	DPM96AD	34069
AC voltmeter	DPM48VA	34052	DPM72VA	34057	DPM96VA	34070
DC voltmeter	DPM48VD	34053	DPM72VD	34058	DPM96VD	34071
Frequency meter	DPM48FM	34054	DPM72FM	34059	DPM96FM	34072
Power factor meter	-	-	DPM72PFM	34060	DPM96PFM	34073
Single phase wattmeter	-	-	DPM72SPWM	34061	DPM96SPWM	34074
Voltage & Current	-	-	DPM72VCM	34062	DPM96VCM	34075
Voltage & Frequency	-	-	DM72VFM	34063	DM96VFM	34076
Current of all 3 phase	-	-	DM72C3	34064	DM96C3	34077
Voltage of all 3 phase	-	-	DM72V3	34065	DM96V3	34078
Frequency of all 3 phase	-	-	DM72F3	34066	DM96F3	34079
3-phase reactive power meter	-	-	DM72OPM3	34067	DM96OPM3	34080

Outline and installation dimensions



Current Transformers

Series MSQ





Technical specifications

- Standard: IEC 60044-1
- Accuracy (class): 1.0
- Max. voltage rating U_e (V): 660.0
- Secondary current I_{sn} (A): 5.0
- Frequency (Hz): 0.8
- Tolerable max overload current: 1.2 I_n
- Safety factor (sf): 30~3000 A: $sf \leq 5$
- Degree of protection: IP20
- Ambient temperature ($^{\circ}C$): -5 ~ +50 related humidity $\leq 80\%$

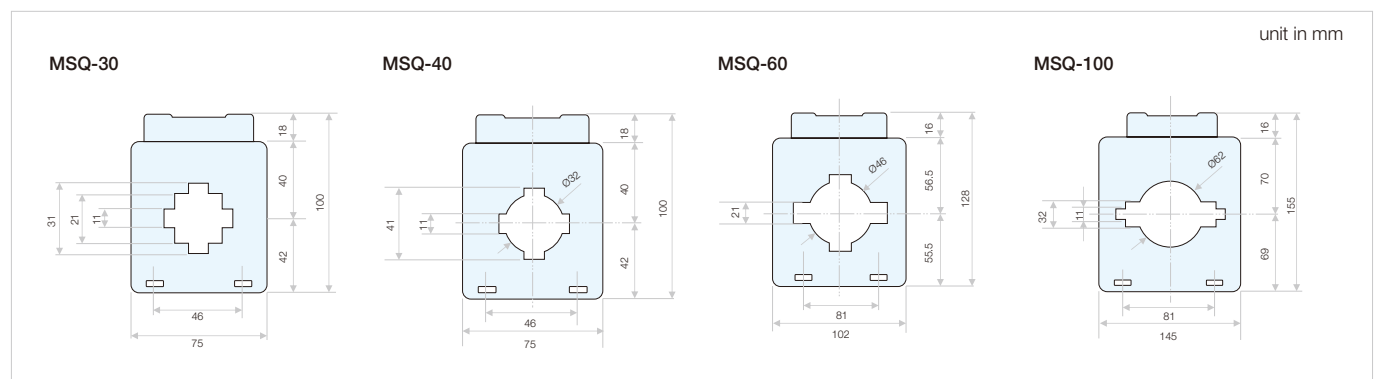


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Selection and ordering data

	Frame class	Transformation ratio (I_{pn}/I_{sn})	Type code	Order code
	MSQ-30	30A/5	MSQ30 30/5	15974
		40A/5	MSQ30 40/5	15975
		50A/5	MSQ30 50/5	15976
		60A/5	MSQ30 60/5	15977
		100A/5	MSQ30 100/5	15978
		150A/5	MSQ30 150/5	15979
		200A/5	MSQ30 200/5	15980
		250A/5	MSQ30 250/5	15981
	MSQ-40	300A/5	MSQ30 300/5	15982
		100A/5	MSQ40 100/5	39800
		150A/5	MSQ40 150/5	39801
		200A/5	MSQ40 200/5	15983
		250A/5	MSQ40 250/5	15984
		300A/5	MSQ40 300/5	15985
		400A/5	MSQ40 400/5	15986
		500A/5	MSQ40 500/5	15987
	MSQ-60	600A/5	MSQ40 600/5	15988
		400A/5	MSQ60 400/5	15989
		500A/5	MSQ60 500/5	15990
		600A/5	MSQ60 600/5	15991
		800A/5	MSQ60 800/5	15992
		1000A/5	MSQ60 1000/5	15993
	MSQ-100	1200A/5	MSQ60 1200/5	15994
		1000A/5	MSQ100 1000/5	15995
		1200A/5	MSQ100 1200/5	15996
		1500A/5	MSQ100 1500/5	15997
		1600A/5	MSQ100 1600/5	15998
		2000A/5	MSQ100 2000/5	15999
		2500A/5	MSQ100 2500/5	16000
		3000A/5	MSQ100 3000/5	16001

Outline and installation dimensions



Power Capacitors Series BSMJ, BGMJ

Technical specifications

- Standard: IEC 60831
- Rated voltage (V AC): 230, 250, 280, 400, 415, 450, 525, 690
- Frequency (Hz): 50/60
- Rated output (Kvar): 1~80
- Capacitance tolerance: -5 ~ +10 %
- Material:
 - Body: dielectric-metallized poly prop ylene film;
 - Impregnant: semi-soild
- Over-voltage permitted: 1.0 Un, 1.1 Un ≤ 8 h/day, 1.3 Un 1min
- Over-current permitted (In): 1.3
- Loss angle tangent: BSMJ: $\text{tg } \delta \leq 0.1\%$; BGMJ: $\text{tg } \delta \leq 0.0015$
- Impact current (In): ≤ 300
- Dielectric loss (W/kvar): ≤ 0.25
- Ambient temperature (°C): -25 ~ +50 Humidity ≤ 90 %
- Altitude (m): ≤ 2000









Power Capacitors

Series BSMJ

Selection and ordering data

Series BSMJ

	Rated voltage (V)	Rated current (A)	Rated output (kvar)	Total capacitance (μF)	Overall dimension (mm)	Type code	Order code
	250	12.0	3	153	160x56x140	BSMJ0.25-3-1	31834
		20.0	5	245	160x56x220	BSMJ0.25-5-1	31835
		30.0	7.5	382	160x56x220	BSMJ0.25-7.5-1	31836
		40.0	10	509	160x70x220	BSMJ0.25-10-1	31837
		60.0	15	764	160x70x250	BSMJ0.25-15-1	31838
	400	2.9	2	39	160x56x115	BSMJ0.4-2-3	31839
		5.8	4	79	160x56x115	BSMJ0.4-4-3	31840
		8.7	6	118	160x56x115	BSMJ0.4-6-3	31841
		11.5	8	158	160x56x135	BSMJ0.4-8-3	31842
		14.4	10	198	160x56x190	BSMJ0.4-10-3	31843
		17.3	12	238	160x56x190	BSMJ0.4-12-3	31844
		20.2	14	278	160x56x190	BSMJ0.4-14-3	31845
		21.7	15	298	160x56x210	BSMJ0.4-15-3	31846
		23.1	16	318	160x56x210	BSMJ0.4-16-3	31847
		26.0	18	358	180x56x250	BSMJ0.4-18-3	31848
		28.9	20	398	180x56x250	BSMJ0.4-20-3	31849
		36.1	25	498	180x70x220	BSMJ0.4-25-3	31850
		43.3	30	597	180x70x260	BSMJ0.4-30-3	31851
		57.7	40	796	180x70x320	BSMJ0.4-40-3	31852
72.2	50	995	180x70x380	BSMJ0.4-50-3	31853		
	415	13.7	10	180.5	160x56x190	BSMJ0.415-10-3	31854
		16.5	12	216.5	160x56x190	BSMJ0.415-12-3	31855
		19.3	14	252.6	160x56x210	BSMJ0.415-14-3	31856
		20.6	15	270.7	160x56x210	BSMJ0.415-15-3	31857
		22.0	16	288.7	160x56x210	BSMJ0.415-16-3	31858
		24.7	18	324.8	180x56x250	BSMJ0.415-18-3	31859
		27.5	20	360.9	180x56x250	BSMJ0.415-20-3	31860
		34.4	25	451.1	180x70x220	BSMJ0.415-25-3	31861
		41.2	30	541.3	180x70x260	BSMJ0.415-30-3	31862
		55.0	40	721.8	180x70x320	BSMJ0.415-40-3	31863
	450	68.7	50	902.2	180x70x380	BSMJ0.415-50-3	31864
		12.8	10	157.3	160x56x190	BSMJ0.45-10-3	31865
		15.4	12	188.7	160x56x190	BSMJ0.45-12-3	31866
		18.0	14	220.2	160x56x210	BSMJ0.45-14-3	31867
		19.2	15	236.0	160x56x210	BSMJ0.45-15-3	31868
		20.5	16	251.6	160x56x210	BSMJ0.45-16-3	31869
		25.7	20	314.5	180x56x250	BSMJ0.45-20-3	31871
		38.5	30	471.6	180x70x260	BSMJ0.45-30-3	31873
		51.3	40	628.8	180x70x320	BSMJ0.45-40-3	31874
64.2	50	786.0	180x70x380	BSMJ0.45-50-3	31875		
	525	11.0	10	115.5	160x56x190	BSMJ0.525-10-3	31876
		13.2	12	138.7	160x56x190	BSMJ0.525-12-3	31877
		15.4	14	161.8	160x56x210	BSMJ0.525-14-3	31878
		16.5	15	173.3	160x56x210	BSMJ0.525-15-3	31879
		17.6	16	184.9	160x56x210	BSMJ0.525-16-3	31880
		22.0	20	231.1	180x56x250	BSMJ0.525-20-3	31882
		33.0	30	346.5	180x70x260	BSMJ0.525-30-3	31884
		44.0	40	426.0	180x70x320	BSMJ0.525-40-3	31885
55.0	50	577.4	180x70x380	BSMJ0.525-50-3	31886		
	690	8.4	10	66.9	160x56x190	BSMJ0.69-10-3	31887
		10.0	12	80.3	160x56x190	BSMJ0.69-12-3	31888
		11.7	14	93.6	160x56x210	BSMJ0.69-14-3	31889
		12.6	15	100.3	160x56x210	BSMJ0.69-15-3	31890
		13.4	16	107.0	160x56x210	BSMJ0.69-16-3	31891
		16.7	20	133.8	160x56x250	BSMJ0.69-20-3	31893
		25.1	30	200.6	180x70x260	BSMJ0.69-30-3	31895
		33.5	40	267.4	180x70x320	BSMJ0.69-40-3	31896
41.8	50	334.3	180x70x320	BSMJ0.69-50-3	31897		

Power Capacitors Series BSMJ, BGMJ

Selection and ordering data

Series BGMJ

Rated voltage (V)	Rated current (A)	Rated output (kvar)	Total capacitance (µF)	Overall dimension (mm)	Type code	Order code
230	7.5	3.0	180.5	Ø65x180	BGMJ230- 3.0	32061
	10.0	4.0	240.7	Ø76x180	BGMJ230- 4.0	31898
	12.5	5.0	300.9	Ø76x180	BGMJ230- 5.0	31899
	15.1	6.0	361.0	Ø76x240	BGMJ230- 6.0	31900
	18.8	7.5	451.3	Ø76x240	BGMJ230- 7.5	31901
	25.1	10.0	601.7	Ø86x240	BGMJ230- 10.0	31902
	30.1	12.0	722.1	Ø96x240	BGMJ230- 12.0	31903
	35.1	14.0	842.4	Ø106x240	BGMJ230- 14.0	31904
	37.6	15.0	902.6	Ø106x240	BGMJ230- 15.0	32062
	40.1	16.0	962.8	Ø106x240	BGMJ230- 16.0	31905
	45.2	18.0	1083.1	Ø116x240	BGMJ230- 18.0	31906
	50.2	20.0	1203.4	Ø116x240	BGMJ230- 20.0	31907
	62.7	25.0	1504.3	Ø116x280	BGMJ230- 25.0	31908
	280	6.2	3.0	121.8	Ø65x180	BGMJ280- 3.0
8.2		4.0	162.4	Ø65x180	BGMJ280- 4.0	31910
10.3		5.0	203.0	Ø65x180	BGMJ280- 5.0	31911
12.4		6.0	243.6	Ø76x240	BGMJ280- 6.0	31912
15.5		7.5	304.5	Ø76x240	BGMJ280- 7.5	31913
20.6		10.0	406.0	Ø76x240	BGMJ280- 10.0	31914
24.7		12.0	487.2	Ø86x240	BGMJ280- 12.0	31915
28.9		14.0	568.4	Ø86x240	BGMJ280- 14.0	31916
30.9		15.0	609.0	Ø86x240	BGMJ280- 15.0	32063
33.0		16.0	649.6	Ø96x240	BGMJ280- 16.0	31917
37.1		18.0	730.8	Ø96x240	BGMJ280- 18.0	31918
41.2		20.0	812.0	Ø106x240	BGMJ280- 20.0	31919
51.5		25.0	1015.0	Ø96x280	BGMJ280- 25.0	31920
400		4.3	3.0	59.7	Ø65x140	BGMJ400- 3.0
	5.8	4.0	79.6	Ø65x180	BGMJ400- 4.0	31922
	7.2	5.0	99.5	Ø65x180	BGMJ400- 5.0	31923
	8.7	6.0	119.4	Ø65x180	BGMJ400- 6.0	31924
	10.8	7.5	149.2	Ø65x180	BGMJ400- 7.5	31925
	14.4	10.0	198.9	Ø65x240	BGMJ400- 10.0	31926
	17.3	12.0	238.7	Ø76x240	BGMJ400- 12.0	31927
	20.2	14.0	278.5	Ø76x240	BGMJ400- 14.0	31928
	21.6	15.0	298.4	Ø76x240	BGMJ400- 15.0	32064
	23.1	16.0	318.3	Ø76x240	BGMJ400- 16.0	31929
	26.0	18.0	358.1	Ø86x240	BGMJ400- 18.0	31930
	28.9	20.0	397.9	Ø86x240	BGMJ400- 20.0	31931
	36.1	25.0	497.4	Ø96x240	BGMJ400- 25.0	31932
	43.3	30.0	596.8	Ø106x240	BGMJ400- 30.0	31933
415	4.2	3.0	55.4	Ø65x140	BGMJ415- 3.0	31934
	5.6	4.0	73.9	Ø65x180	BGMJ415- 4.0	31935
	7.0	5.0	92.4	Ø65x180	BGMJ415- 5.0	31936
	8.3	6.0	110.9	Ø65x180	BGMJ415- 6.0	31937
	10.4	7.5	138.6	Ø65x180	BGMJ415- 7.5	31938
	13.9	10.0	184.8	Ø76x180	BGMJ415- 10.0	31939
	16.7	12.0	221.8	Ø65x240	BGMJ415- 12.0	31940
	19.5	14.0	258.8	Ø76x240	BGMJ415- 14.0	31941
	20.9	15.0	277.2	Ø76x240	BGMJ415- 15.0	32065
	22.2	16.0	295.7	Ø76x240	BGMJ415- 16.0	31942
	25.0	18.0	332.7	Ø86x240	BGMJ415- 18.0	31943
	27.8	20.0	369.6	Ø86x240	BGMJ415- 20.0	31944
	34.8	25.0	462.1	Ø96x240	BGMJ415- 25.0	31945
	41.7	30.0	554.5	Ø96x240	BGMJ415- 30.0	31946
450	3.8	3.0	47.2	Ø65x140	BGMJ450- 3.0	31947
	5.1	4.0	62.9	Ø65x180	BGMJ450- 4.0	31948
	6.4	5.0	78.9	Ø65x180	BGMJ450- 5.0	31949
	7.7	6.0	94.3	Ø65x180	BGMJ450- 6.0	31950
	9.6	7.5	117.9	Ø76x240	BGMJ450- 7.5	31951
	12.8	10.0	157.2	Ø76x240	BGMJ450- 10.0	31952
	15.4	12.0	188.6	Ø76x240	BGMJ450- 12.0	31953
	18.0	14.0	220.1	Ø76x240	BGMJ450- 14.0	31954
	19.2	15.0	235.8	Ø76x240	BGMJ450- 15.0	32066
	20.5	16.0	251.5	Ø86x240	BGMJ450- 16.0	31955
	23.1	18.0	282.9	Ø86x240	BGMJ450- 18.0	31956
	25.6	20.0	314.4	Ø86x240	BGMJ450- 20.0	31957



Power Capacitors

Series BSMJ

Selection and ordering data

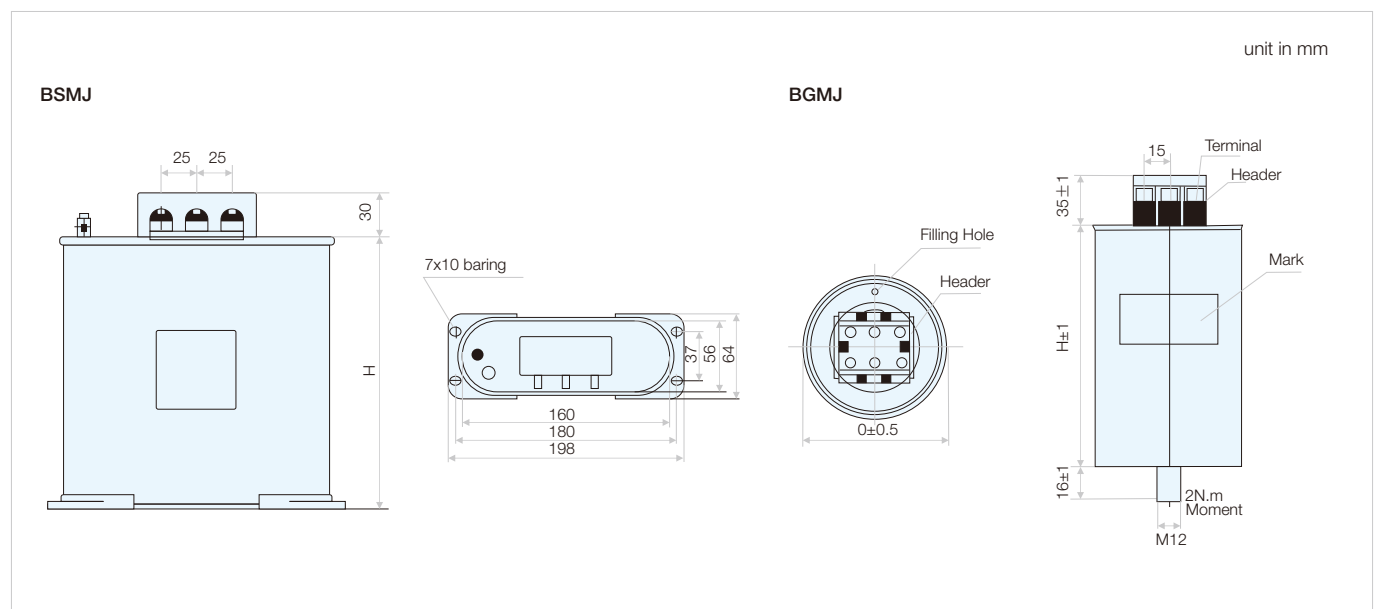
Series BGMJ

	Rated voltage (V)	Rated current (A)	Rated output (kvar)	Total capacitance (µF)	Overall dimension (mm)	Type code	Order code
	450	32.1	25.0	393.0	Ø96x240	BGMJ450- 25.0	31958
		38.5	30.0	471.6	Ø106x240	BGMJ450- 30.0	31959
	525	3.3	3.0	34.6	Ø65x140	BGMJ525- 3.0	31960
		4.4	4.0	46.2	Ø65x180	BGMJ525- 4.0	31961
		5.5	5.0	57.7	Ø65x180	BGMJ525- 5.0	32062
		6.6	6.0	69.3	Ø65x180	BGMJ525- 6.0	31963
		8.2	7.5	86.6	Ø76x180	BGMJ525- 7.5	31964
		11.0	10.0	115.5	Ø76x240	BGMJ525- 10.0	31965
		13.2	12.0	138.6	Ø76x240	BGMJ525- 12.0	31966
		15.4	14.0	161.7	Ø76x240	BGMJ525- 14.0	31967
		16.5	15.0	173.2	Ø76x240	BGMJ525- 15.0	32067
		17.6	16.0	184.8	Ø86x240	BGMJ525- 16.0	31968
		19.8	18.0	207.9	Ø86x240	BGMJ525- 18.0	31969
		22.0	20.0	231.0	Ø86x240	BGMJ525- 20.0	31970
	690	27.5	25.0	288.7	Ø96x240	BGMJ525- 25.0	31971
		33.0	30.0	346.5	Ø106x240	BGMJ525- 30.0	31972
		2.5	3.0	20.1	Ø65x180	BGMJ690- 3.0	31973
		3.3	4.0	26.7	Ø65x180	BGMJ690- 4.0	31974
		4.2	5.0	33.4	Ø76x180	BGMJ690- 5.0	32075
		5.0	6.0	40.1	Ø76x180	BGMJ690- 6.0	31976
		6.3	7.5	50.1	Ø76x240	BGMJ690- 7.5	31977
		8.4	10.0	66.9	Ø76x240	BGMJ690- 10.0	31978
		10.0	12.0	80.2	Ø86x240	BGMJ690- 12.0	31979
		11.7	14.0	93.6	Ø86x240	BGMJ690- 14.0	31980
		12.5	15.0	100.3	Ø86x240	BGMJ690- 15.0	32068
		13.4	16.0	107.0	Ø96x240	BGMJ690- 16.0	31981
15.1	18.0	120.3	Ø96x240	BGMJ690- 18.0	31982		
16.7	20.0	133.7	Ø106x240	BGMJ690- 20.0	31983		
20.9	25.0	167.1	Ø116x240	BGMJ690- 25.0	31984		



6

Outline and installation dimensions



Technical specifications

- Standard: IEC 60529
- Material: Cold rolled plate/Galvanized sheet
- Body and door: 1.5 mm steel sheet
- Mounting plate: 2.5 mm steel sheet
- Finish:
- Case and door: RAL 7032 mat finish
- Mounting plate: RAL 2004 smooth finish
- Protection degree: IP65
- Boxes are completed with:
- Mounting plate
- Gland plate and gasket
- Locking system with 3 mm double bar key
- Package with hardware for earth connection and screws to mount all components



Selection and ordering data

	Dimension			Type code	Order code
	Height (mm)	Width	Depth		
Single door series	200	200	150	M200x200x150	14672
	250	200	150	M250x200x150	14674
	300	200	150	M300x200x150	14683
	300	250	150	M300x250x150	14685
	300	300	150	M300x300x150	14688
	400	300	150	M400x300x150	14702
	400	400	150	M400x400x150	14706
	500	300	150	M500x300x150	14710
	500	400	150	M500x400x150	14714
	500	500	150	M500x500x150	14719
	600	400	150	M600x400x150	14723
	600	500	150	M600x500x150	14727
	600	600	150	M600x600x150	14731
	700	500	150	M700x500x150	14738
	300	200	200	M300x200x200	14684
	300	250	200	M300x250x200	14686
	300	300	200	M300x300x200	14689
	400	300	200	M400x300x200	14703
	400	400	200	M400x400x200	14707
	500	300	200	M500x300x200	14711
	500	400	200	M500x400x200	14715
	500	500	200	M500x500x200	14720
	600	400	200	M600x400x200	14724
	600	500	200	M600x500x200	14728
	600	600	200	M600x600x200	14732
	700	400	200	M700x400x200	14736
	700	500	200	M700x500x200	14739
	700	600	200	M700x600x200	14742
	800	600	200	M800x600x200	14745
	800	800	200	M800x800x200	14748
	1000	600	200	M1000x600x200	14751
	1000	700	200	M1000x700x200	14754
1000	800	200	M1000x800x200	14756	
1200	600	200	M1200x600x200	14760	
1200	800	200	M1200x800x200	14763	
500	400	210	M500x400x210	14716	
300	250	250	M300x250x250	14687	
300	300	250	M300x300x250	14690	
400	300	250	M400x300x250	14704	



Metal Boxes

Series 3SM

Selection and ordering data

	Dimension			Type code	Order code
	Height (mm)	Width	Depth		
Single door series	400	400	250	M400x400x250	14708
	500	300	250	M500x300x250	14712
	500	400	250	M500x400x250	14717
	500	500	250	M500x500x250	14721
	600	400	250	M600x400x250	14725
	600	500	250	M600x500x250	14729
	600	600	250	M600x600x250	14733
	700	350	250	M700x350x250	14680
	700	500	250	M700x500x250	14740
	700	600	250	M700x600x250	14743
	800	600	250	M800x600x250	14746
	800	800	250	M800x800x250	14749
	1000	600	250	M1000x600x250	14752
	1000	700	250	M1000x700x250	14755
	1000	800	250	M1000x800x250	14757
	1000	1000	250	M1000x1000x250	14681
	1200	600	250	M1200x600x250	14761
	1200	800	250	M1200x800x250	14764
	1200	1000	250	M1200x1000x250	14766
	1200	1200	250	M1200x1200x250	14682
	200	400	300	M200x400x300	14673
	250	400	300	M250x400x300	14675
	400	300	300	M400x300x300	14705
	400	400	300	M400x400x300	14709
	500	300	300	M500x300x300	14713
	500	400	300	M500x400x300	14718
	500	500	300	M500x500x300	14722
	600	400	300	M600x400x300	14726
	600	500	300	M600x500x300	14730
	600	600	300	M600x600x300	14734
	700	400	300	M700x400x300	14737
	700	500	300	M700x500x300	14741
	700	600	300	M700x600x300	14744
	800	600	300	M800x600x300	14747
	800	800	300	M800x800x300	14750
	900	500	300	M900x500x300	27275
	1000	600	300	M1000x600x300	14753
	1000	800	300	M1000x800x300	14758
	1000	1000	300	M1000x1000x300	14759
	1200	600	300	M1200x600x300	14762
	1200	800	300	M1200x800x300	14765
	1200	1000	300	M1200x1000x300	14767
	1200	1200	300	M1200x1200x300	14769
	1400	600	300	M1400x600x300	14768
	1400	800	300	M1400x800x300	14770
1400	1000	300	M1400x1000x300	14676	
1400	1200	300	M1400x1200x300	14677	
1600	800	300	M1600x800x300	14678	
1600	1000	300	M1600x1000x300	14771	
1600	1200	300	M1600x1200x300	14679	
1800	800	300	M1800x800x300	14772	
1800	1000	300	M1800x1000x300	14773	
1800	1200	300	M1800x1200x300	27276	
600	600	350	M600x600x350	14735	
600	600	400	M600x600x400	14692	
800	600	400	M800x600x400	14693	
800	800	400	M800x800x400	14694	
1000	800	400	M1000x800x400	14696	
1000	1000	400	M1000x1000x400	14700	
1200	1000	400	M1200x1000x400	14695	
1200	1200	400	M1200x1200x400	14697	
1400	800	400	M1400x800x400	14699	
1400	1000	400	M1400x1000x400	14701	
1600	1000	400	M1600x1000x400	14698	
300	600	600	M300x600x600	14691	
1000	800	600	M1000x800x600	27277	



Selection and ordering data

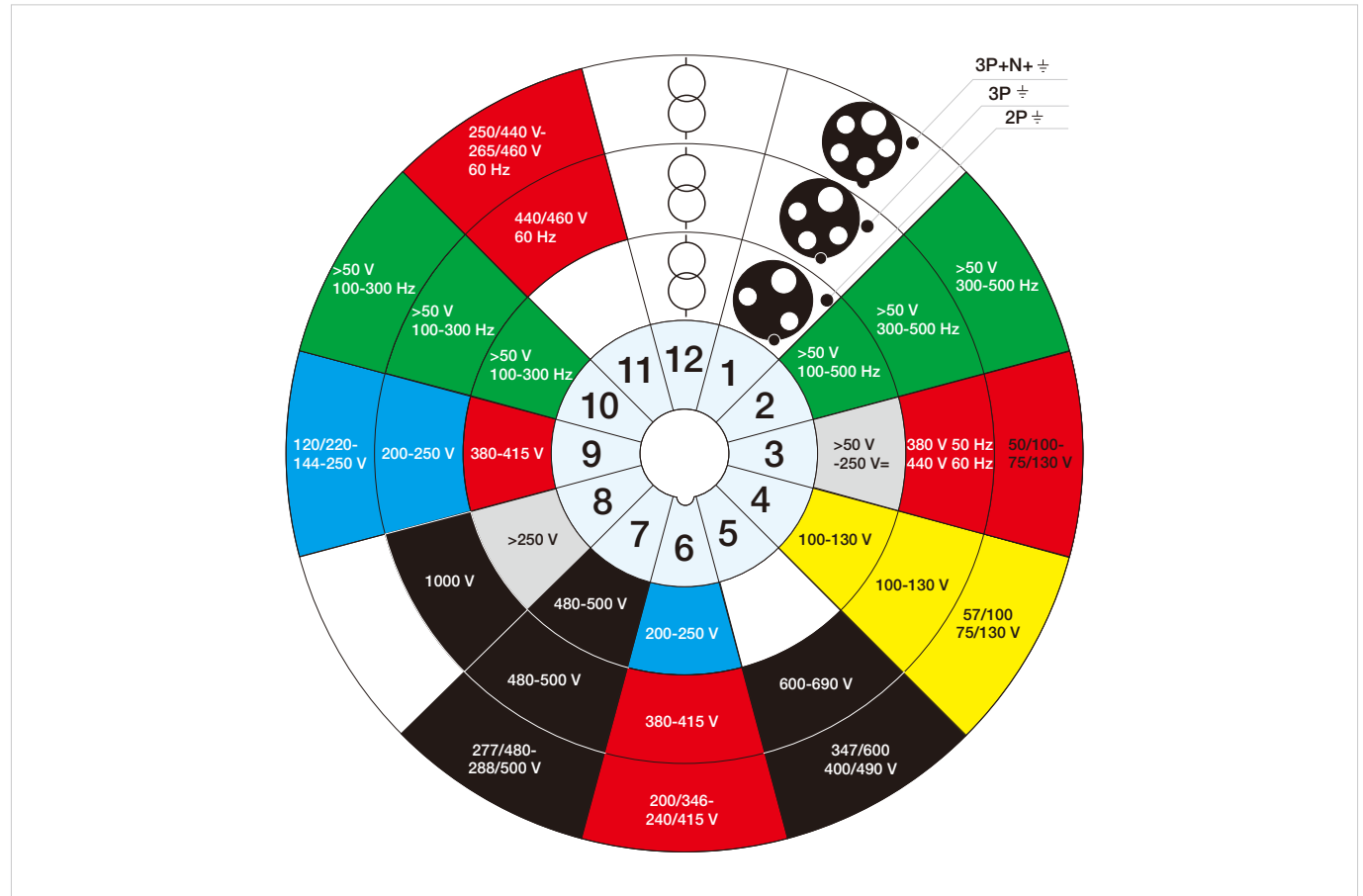
	Dimension			Type code	Order code
	Height (mm)	Width	Depth		
Double door series 	600	800	200	MD600x800x200	33132
	600	800	250	MD600x800x250	33133
	600	800	300	MD600x800x300	33134
	600	1000	200	MD600x1000x200	33135
	600	1000	250	MD600x1000x250	33136
	600	1000	300	MD600x1000x300	33137
	600	1200	250	MD600x1200x250	33138
	600	1200	300	MD600x1200x300	33139
	800	1200	250	MD800x1200x250	33140
	800	1200	300	MD800x1200x300	33141
	1000	1000	250	MD1000x1000x250	33142
	1000	1000	300	MD1000x1000x300	33143
	1000	1000	400	MD1000x1000x400	33144
	1200	1000	250	MD1200x1000x250	33145
	1200	1200	250	MD1200x1200x250	33146
	1200	1000	300	MD1200x1000x300	33147
	1200	1200	300	MD1200x1200x300	33148
	1200	1000	400	MD1200x1000x400	33149
	1200	1200	400	MD1200x1200x400	33150
	1400	1000	250	MD1400x1000x250	33151
1400	1000	300	MD1400x1000x300	33152	
1400	1000	400	MD1400x1000x400	33153	
1400	1200	300	MD1400x1200x300	33154	
1400	1200	400	MD1400x1200x400	33155	
1400	1400	300	MD1400x1400x300	33156	
1400	1400	400	MD1400x1400x400	33157	
Inner door series 	400	300	200	MI400x300x200	33158
	400	400	200	MI400x400x200	33159
	500	300	200	MI500x300x200	33160
	500	400	200	MI500x400x200	33161
	500	500	200	MI500x500x200	33162
	600	400	200	MI600x400x200	33163
	600	500	200	MI600x500x200	33164
	600	600	200	MI600x600x200	33165
	700	500	200	MI700x500x200	33166
	800	600	200	MI800x600x200	33167
	800	800	200	MI800x800x200	33168
	400	300	250	MI400x300x250	33169
	400	400	250	MI400x400x250	33170
	500	300	250	MI500x300x250	33171
	500	400	250	MI500x400x250	33172
	500	500	250	MI500x500x250	33173
	600	400	250	MI600x400x250	33174
600	500	250	MI600x500x250	33175	
600	600	250	MI600x600x250	33176	

Industrial plugs and sockets

The industrial plugs and sockets is basically designed to be suitable for indoor and outdoor applications where it needs to be possible to connect and disconnect, such as industry, building sites, workshops, agricultural sector, commercial premises and in households.

Clock position

- Acc. to IEC 60309-1, -2
- Position of earthing sleeve with respect to major keyway for various voltages and frequencies.
- The color codes correspond to the nominal voltage.



Position of the earth contact

- Plugs and sockets with rated voltages above 50 V must have an earth contact.
- To prevent incorrect insertion of different voltages or frequencies, a nose on the plug is designed in accordance with the voltages or frequencies to fit into a keyway in the receptacle, thus ensuring that the earth contact pin or tube is correctly positioned in accordance with the required electrical standard.

Selection table

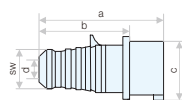
		3SP1		3SP2		3SP6	
		IP44	IP67	IP67	IP44	IP67	
16 A	110-130 V	●		●	●	●	
	220-240 V	●		●	●	●	
	380-415 V	●		●	●	●	
32 A	110-130 V	●		●	●	●	
	220-240 V	●		●	●	●	
	380-415 V	●		●	●	●	
63 A	220-240 V		●	●			
	380-415 V		●	●			

Industrial plugs and sockets

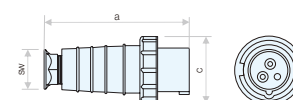
Series 3SP1, IP44 (16 A & 32 A), IP67 (63 A)

Selection and ordering data

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension mm				
				Type code	Order code	a	b	c	d	sw
Plugs										
16	2P+E	110-130	4h	3SP1-013-4	14253	118	82	47	6-15	38
		220-240	6h	3SP1-013	31433	118	82	47	6-15	38
	3P+E	380-415	6h	3SP1-014	31436	124	88	83	6-15	38
32	2P+E	110-130	4h	3SP1-023-4	14254	146	100	63	10-20	50
		220-240	6h	3SP1-023	31434	146	100	63	10-20	50
	3P+E	380-415	6h	3SP1-024	31437	146	100	63	10-20	50
63	2P+E	220-240	6h	3SP1-033	31435	230	109			36
		380-415	6h	3SP1-034	31438	230	109			36
	3P+N+E	220-380/240-415	6h	3SP1-035	31441	230	109			36



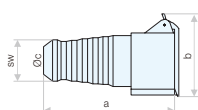
16 A & 32 A



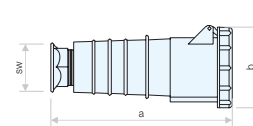
63 A



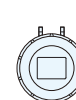
Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension mm				
				Type code	Order code	a	b	c	sw	
Connectors										
16	2P+E	110-130	4h	3SP1-213-4	14259	129	76	6-15	38	
		220-240	6h	3SP1-213	31451	129	76	6-15	38	
	3P+E	380-415	6h	3SP1-214	31454	135	80	6-15	38	
32	2P+E	110-130	4h	3SP1-223-4	14260	159	92	10-20	50	
		220-240	6h	3SP1-223	31452	159	92	10-20	50	
	3P+E	380-415	6h	3SP1-224	31455	159	92	10-20	50	
63	2P+E	220-240	6h	3SP1-233	31453	240	112	36	36	
		380-415	6h	3SP1-234	31456	240	112	36	36	
	3P+N+E	220-380/240-415	6h	3SP1-235	31459	240	112	36	36	



16 A & 32 A



63 A

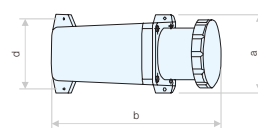
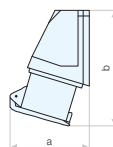
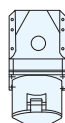


Industrial plugs and sockets

Series 3SP1, IP44 (16 A & 32 A), IP67 (63 A)

Selection and ordering data

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension mm		
				Type code	Order code	a	b	d
Surface mounting socket outlets								
16	2P+E	110-130	4h	3SP1-113-4	14255	87	137	
		220-240	6h	3SP1-113	31442	87	137	
	3P+E	380-415	6h	3SP1-114	31445	95	139	
32	2P+E	110-130	4h	3SP1-123-4	14256	101	153	
		220-240	6h	3SP1-123	31443	101	153	
	3P+N+E	220-380/240-415	6h	3SP1-125	31449	104	154	
63	2P+E	220-240	6h	3SP1-133	31444	125	270	109
	3P+E	380-415	6h	3SP1-134	31447	125	270	109
	3P+N+E	220-380/240-415	6h	3SP1-135	31450	125	270	109

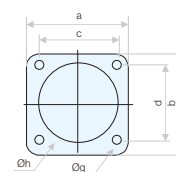
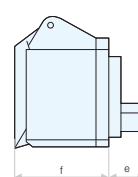


16 A & 32 A

63 A

6

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension mm						
				Type code	Order code	a	b	c	d	e	f	g
Panel mounting socket outlets												
16	2P+E	110-130	4h	3SP1-313-4	14257	76	76	61	61	16	60	5.5
		220-240	6h	3SP1-313	31460	76	76	61	61	16	60	5.5
	3P+E	380-415	6h	3SP1-314	31463	76	76	61	61	17	60	5.5
	3P+N+E	220-380/240-415	6h	3SP1-315	31466	76	76	61	61	18	58	5.5
32	2P+E	110-130	4h	3SP1-323-4	14258	76	76	61	61	20	70	5.5
		220-240	6h	3SP1-323	31461	76	76	61	61	20	70	5.5
	3P+N+E	220-380/240-415	6h	3SP1-325	31467	76	76	61	61	22	71	5.5
63	2P+E	220-240	6h	3SP1-333	31462	100	100	80	80	39	95	114
	3P+E	380-415	6h	3SP1-334	31465	100	100	80	80	39	95	114
	3P+N+E	220-380/240-415	6h	3SP1-335	31468							



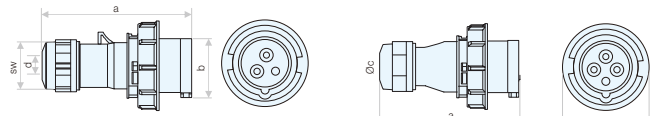
16 A & 32 A & 63 A

Industrial plugs and sockets

Series 3SP2, IP67

Selection and ordering data

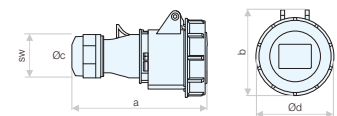
Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension				
				Type code	Order code	a	b	c	d	sw
Plugs										
16	2P+E	110-130	4h	3SP2-0132-4	14261	118	82	6-15	38	
		220-240	6h	3SP2-0131	31469	118	82	6-16	38	
	3P+E	380-415	6h	3SP2-0141	31472	124	79	6-16	38	
	3P+N+E	220-380/240-415	6h	3SP2-0151	31475	131	87	8-16	42	
32	2P+E	110-130	4h	3SP2-0232-4	14262	146	100	10-20	50	
		220-240	6h	3SP2-0231	31470	146	100	10-20	50	
	3P+E	380-415	6h	3SP2-0241	31473	146	93	10-20	50	
	3P+N+E	220-380/240-415	6h	3SP2-0251	31476	152	100	10-20	50	
63	2P+E	220-240	6h	3SP2-0331	31471	240	115	30		
		380-415	6h	3SP2-0341	31474	240	115	30		
	3P+E	380-415	6h	3SP2-0341	31474	240	115	30		
	3P+N+E	220-380/240-415	6h	3SP2-0351	31477	240	115	30		



16 A & 32 A

63 A

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension				
				Type code	Order code	a	b	c	d	
Connectors										
16	2P+E	110-130	4h	3SP2-2132-4	14267	133	78	6-15	38	
		220-240	6h	3SP2-2131	31487	133	78	6-15	38	
	3P+E	380-415	6h	3SP2-2141	31490	139	84	6-15	38	
	3P+N+E	220-380/240-415	6h	3SP2-2151	31493	145	92	6-15	38	
32	2P+E	110-130	4h	3SP2-2232-4	14268	162	96	10-20	50	
		220-240	6h	3SP2-2231	31488	162	96	10-20	50	
	3P+E	380-415	6h	3SP2-2241	31491	162	96	10-20	50	
	3P+N+E	220-380/240-415	6h	3SP2-2251	31494	168	102	10-20	50	
63	2P+E	220-240	6h	3SP2-2331	31489	261	114	30	112	
	3P+E	380-415	6h	3SP2-2341	31492	261	114	30	112	
	3P+N+E	220-380/240-415	6h	3SP2-2351	31495	261	114	30	112	

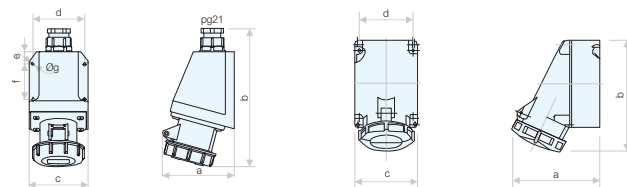


Industrial plugs and sockets

Series 3SP2, IP67

Selection and ordering data

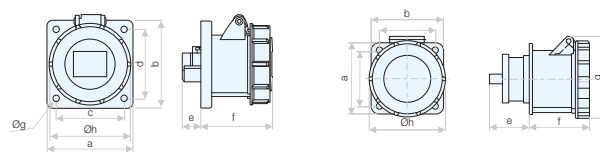
Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension							
				Type code	Order code	a	b	c	d	e	f	g	
Surface mounting socket outlets													
16	2P+E	110-130	4h	3SP2-1132-4	14263	96	151	81	71		17	48	5.2
		220-240	6h	3SP2-1131	31478	96	151	81	71		17	48	5.2
	3P+E	380-415	6h	3SP2-1141	31481	98	155	81	71		17	48	5.2
32	2P+E	110-130	4h	3SP2-1232-4	14264	103	153	87	71		17	47.5	5.2
		220-240	6h	3SP2-1231	31479	107	165						
	3P+E	380-415	6h	3SP2-1241	31482	107	165						
63	2P+E	220-240	6h	3SP2-1331	31480	171	170	238	118				
		380-415	6h	3SP2-1341	31483	171	170	238	118				
	3P+N+E	220-380/240-415	6h	3SP2-1351	31486	171	170	238	118				



16 A & 32 A

63 A

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code		Dimension								
				Type code	Order code	a	b	c	d	e	f	g	h	
Panel mounting socket outlets														
16	2P+E	110-130	4h	3SP2-3132-4	14265	76	76	61	61		16	61	5.5	46
		220-240	6h	3SP2-3131	31496	76	76	61	61		16	61	5.5	46
	3P+E	380-415	6h	3SP2-3141	31499	76	76	61	61		17	61	5.5	46
32	2P+E	110-130	4h	3SP2-3232-4	14266	76	76	61	61		20	74	5.5	60
		220-240	6h	3SP2-3231	31497	76	76	61	61		20	74	5.5	60
	3P+E	380-415	6h	3SP2-3241	31500	76	76	61	61		20	74	5.5	60
63	2P+E	220-240	6h	3SP2-3331	31498	100	100	80	80		39	95	114	80
		380-415	6h	3SP2-3341	31501	100	100	80	80		39	95	114	80
	3P+N+E	220-380/240-415	6h	3SP2-3351	31504	100	100	80	80		39	95	114	80



16 A & 32 A

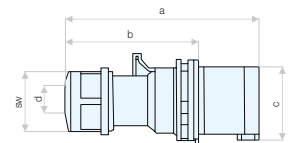
63 A

Industrial plugs and sockets

Series 3SP6, IP44

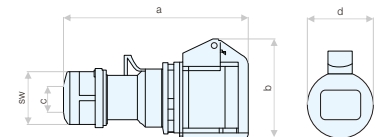
Selection and ordering data

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension				
						a	b	c	d	sw
Plugs										
16	2P+E	110-130	4h	3SP6-0131-4	14139	118	82	47	6-15	38
		220-240	6h	3SP6-0131	14141	118	82	47	6-15	38
	3P+E	380-415	6h	3SP6-0141	14143	124	88	53	6-15	38
	3P+N+E	380-415	6h	3SP6-0151	14145	131	95	61	8-16	42
32	2P+E	110-130	4h	3SP6-0231-4	14140	146	100	63	10-20	50
		220-240	6h	3SP6-0231	14142	146	100	63	10-20	50
	3P+E	380-415	6h	3SP6-0241	14144	146	100	63	10-20	50
	3P+N+E	380-415	6h	3SP6-0251	14146	152	106	70	10-20	20

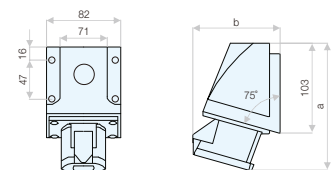


6

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension				
						a	b	c	d	sw
Connectors										
16	2P+E	110-130	4h	3SP6-2131-4	14147	127	75	6-15	51	38
		220-240	6h	3SP6-2131	14149	127	75	6-15	51	38
	3P+E	380-415	6h	3SP6-2141	14151	135	80	6-15	57	38
	3P+N+E	380-415	6h	3SP6-2151	14153	135	80	6-15	57	38
32	2P+E	110-130	4h	3SP6-2231-4	14148	159	90	10-20	66	50
		220-240	6h	3SP6-2231	14150	159	90	10-20	66	50
	3P+E	380-415	6h	3SP6-2241	14152	159	90	10-20	66	50
	3P+N+E	380-415	6h	3SP6-2251	14154	159	90	10-20	66	50



Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension	
						a	b
Surface mounting socket outlets							
16	2P+E	110-130	4h	3SP6-1131-4	14155	149	96
		220-240	6h	3SP6-1131	14157	149	96
	3P+E	380-415	6h	3SP6-1141	14159	150	101
	3P+N+E	380-415	6h	3SP6-1151	14161	153	103
32	2P+E	110-130	4h	3SP6-1231-4	14156	163	107
		220-240	6h	3SP6-1231	14158	163	107
	3P+E	380-415	6h	3SP6-1241	14160	163	107
	3P+N+E	380-415	6h	3SP6-1251	14162	163	112

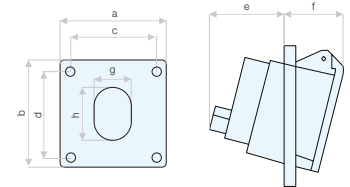


Industrial plugs and sockets

Series 3SP6, IP44

Selection and ordering data

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension									
						a	b	c	d	e	f	g	h	l	
Panel mounting socket outlets															
16	2P+E	110-130	4h	3SP6-3131-4	14163	80	98	60	73		37	50	57	62	6
		220-240	6h	3SP6-3131	14165	80	98	60	73		37	50	57	62	6
	3P+E	380-415	6h	3SP6-3141	14167	80	98	60	73		40	46	63	70	6
32	2P+E	110-130	4h	3SP6-3231-4	14164	80	98	60	73		45	57	72	81	6
		220-240	6h	3SP6-3231	14166	88	98	60	73		45	57	72	81	6
	3P+E	380-415	6h	3SP6-3241	14168	88	98	60	73		45	57	72	81	6
	3P+N+E	380-415	6h	3SP6-3251	14170	88	98	60	73		47	55	78	88	6

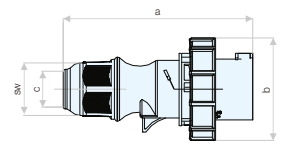


Industrial plugs and sockets

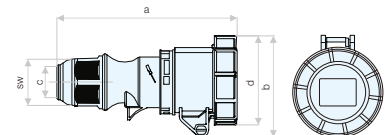
Series 3SP6, IP67

Selection and ordering data

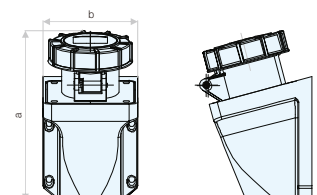
Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension			
						a	b	c	sw
Plugs									
16	2P+E	110-130	4h	3SP6-0132-4	14171	135	72	6-15	38
		220-240	6h	3SP6-0132	14173	135	72	6-15	38
	3P+E	380-415	6h	3SP6-0142	14175	140	80	6-15	38
	3P+N+E	380-415	6h	3SP6-0152	14177	140	89	8-16	38
32	2P+E	110-130	4h	3SP6-0232-4	14172	160	93	10-20	50
		220-240	6h	3SP6-0232	14174	160	93	10-20	50
	3P+E	380-415	6h	3SP6-0242	14176	160	93	10-20	50
	3P+N+E	380-415	6h	3SP6-0252	14178	170	102	10-20	50



Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension				
						a	b	c	d	sw
Connectors										
16	2P+E	110-130	4h	3SP6-2132-4	14179	147	71	6-15	71	38
		220-240	6h	3SP6-2132	14181	147	71	6-15	71	38
	3P+E	380-415	6h	3SP6-2142	14183	153	87	6-15	80	38
	3P+N+E	380-415	6h	3SP6-2152	14185	155	93	8-16	87	38
32	2P+E	110-130	4h	3SP6-2232-4	14180	175	97	10-20	93	50
		220-240	6h	3SP6-2232	14182	175	97	10-20	93	50
	3P+E	380-415	6h	3SP6-2242	14184	175	97	10-20	93	50
	3P+N+E	380-415	6h	3SP6-2252	14186	185	104	12-22	100	50



Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension	
						a	b
Surface mounting socket outlets							
16	2P+E	110-130	4h	3SP6-1132-4	14187	155	99
		220-240	6h	3SP6-1132	14189	155	99
	3P+E	380-415	6h	3SP6-1142	14191	155	101
	3P+N+E	380-415	6h	3SP6-1152	14193	155	106
32	2P+E	110-130	4h	3SP6-1232-4	14188	170	108
		220-240	6h	3SP6-1232	14190	170	108
	3P+E	380-415	6h	3SP6-1242	14192	170	108
	3P+N+E	380-415	6h	3SP6-1252	14194	172	111

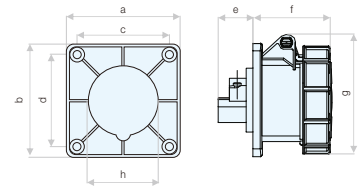


Industrial plugs and sockets

Series 3SP6, IP67

Selection and ordering data

Rated current A	Terminal	Voltage 50/60 Hz V	EARTH HR. POS	Type code	Order code	Dimension																
						a	b	c	d	e	f	g	h	l								
Panel mounting socket outlets																						
16	2P+E	110-130	4h	3SP6-3132-4	14195	76	76	61	61	18	63	78	46	5								
		220-240	6h	3SP6-3132	14197	76	76	61	61	18	63	78	46	5								
16	3P+E	380-415	6h	3SP6-3142	14199	76	76	61	61	17	61	84	53	6								
		380-415	6h	3SP6-3152	14201	76	76	61	61	17	62	91	60	6								
32	2P+E	110-130	4h	3SP6-3232-4	14196	76	76	61	61	20	74	96	60	5								
		220-240	6h	3SP6-3232	14198	76	76	61	61	20	74	96	60	6								
32	3P+E	380-415	6h	3SP6-3242	14200	76	76	61	61	20	74	98	60	6								
		380-415	6h	3SP6-3252	14202	76	76	61	61	22	73	102	60	6								




Electric Bell & Buzzers Series 3S-B1


Technical specifications

- Standard: IEC 61558-2-8
- Voltage range (V):
 - AC: 12, 24, 36, 48, 110, 127, 220, 380
 - DC: 12, 24, 36, 48, 110, 220
- Rated frequency (Hz): 50/60
- Permissible voltage variation: $\pm 10\%$
- Rated insulation resistance: $\geq 20\text{ M}\Omega$



Selection and ordering data


3S-B1	Diameter Ø (mm)	Rated voltage	Type code	Order code
	Ø55	12VAC	B10512A	31505
		24VAC	B10524A	31506
		36VAC	B10536A	31507
		48VAC	B10548A	31508
		110VAC	B105110A	31509
		27VAC	B105127A	31510
		220VAC	B105220A	31511
		380VAC	B105380A	31512
		12VDC	B10512D	31513
		24VDC	B10524D	31514
		36VDC	B10536D	31515
		48VDC	B10548D	31516
	110VDC	B105110D	31517	
	220VDC	B105220D	31518	
	Ø75	12VAC	B10712A	31519
		24VAC	B10724A	31520
		36VAC	B10736A	31521
		48VAC	B10748A	31522
		110VAC	B107110A	31523
		127VAC	B107127A	31524
		220VAC	B107220A	31525
		380VAC	B107380A	31526
		12VDC	B10712D	31527
		24VDC	B10724D	31528
		36VDC	B10736D	31529
		48VDC	B10748D	31530
	110VDC	B107110D	31531	
	220VDC	B107220D	31532	
Ø100	12VAC	B11012A	31533	
	24VAC	B11024A	31534	
	36VAC	B11036A	31535	
	48VAC	B11048A	31536	
	110VAC	B110110A	31537	
	127VAC	B110127A	31538	
	220VAC	B110220A	31539	
	380VAC	B110380A	31540	
	12VDC	B11012D	31541	
	24VDC	B11024D	31542	
	36VDC	B11036D	31543	
	48VDC	B11048D	31544	
110VDC	B110110D	31545		
220VDC	B110220D	31546		
Ø150	12VAC	B11512A	31547	
	24VAC	B11524A	31548	
	36VAC	B11536A	31549	
	48VAC	B11548A	31550	
	110VAC	B115110A	31551	
	127VAC	B115127A	31552	
	220VAC	B115220A	31553	
	380VAC	B115380A	31554	
	12VDC	B11512D	31555	


3S-B1	Diameter Ø (mm)	Rated voltage	Type code	Order code
	Ø150	24VDC	B11524D	31556
		36VDC	B11536D	31557
		48VDC	B11548D	31558
		110VDC	B115110D	31559
		220VDC	B115220D	31560
		Ø200	12VAC	B12012A
	24VAC		B12024A	31562
	36VAC		B12036A	31563
	48VAC		B12048A	31564
	110VAC		B120110A	31565
	127VAC		B120127A	31566
	Ø250	220VAC	B120220A	31567
		380VAC	B120380A	31568
		12VDC	B12012D	31569
		24VDC	B12024D	31570
		36VDC	B12036D	31571
		48VDC	B12048D	31572
	Ø300	110VDC	B120110D	31573
		220VDC	B120220D	31574
		12VAC	B12512A	31575
		24VAC	B12524A	31576
		36VAC	B12536A	31577
		48VAC	B12548A	31578
	Ø300	110VAC	B125110A	31579
		127VAC	B125127A	31580
		220VAC	B125220A	31581
		380VAC	B125380A	31582
		12VDC	B12512D	31583
		24VDC	B12524D	31584
		36VDC	B12536D	31585
		48VDC	B12548D	31586
		110VDC	B125110D	31587
		220VDC	B125220D	31588
		12VAC	UC42012A	31589
		24VAC	UC42024A	31590
		36VAC	UC42036A	31591
48VAC		UC42048A	31592	
110VAC		UC420110A	31593	
127VAC		UC420127A	31594	
220VAC		UC420220A	31595	
380VAC		UC420380A	31596	
12VDC	UC42012D	31597		
24VDC	UC42024D	31598		
36VDC	UC42036D	31599		
48VDC	UC42048D	31600		
110VDC	UC420110D	31601		
220VDC	UC420220D	31602		

Electric Bell & Buzzers

Series UC4

Selection and ordering data


UC4	Diameter Ø (mm)	Rated voltage	Type code	Order code		
	Ø55	12VAC	UC40512A	31603		
		24VAC	UC40524A	31604		
		36VAC	UC40536A	31605		
		48VAC	UC40548A	31606		
		110VAC	UC405110A	31607		
		127VAC	UC405127A	31608		
		220VAC	UC405220A	31609		
		380VAC	UC405380A	31610		
		12VDC	UC40512D	31611		
		24VDC	UC40524D	31612		
		36VDC	UC40536D	31613		
		48VDC	UC40548D	31614		
		110VDC	UC405110D	31615		
		220VDC	UC405220D	31616		
			Ø75	12VAC	UC40712A	31617
				24VAC	UC40724A	31618
36VAC	UC40736A			31619		
48VAC	UC40748A			31620		
110VAC	UC407110A			31621		
127VAC	UC407127A			31622		
220VAC	UC407220A			31623		
380VAC	UC407380A			31624		
12VDC	UC40712D			31625		
24VDC	UC40724D			31626		
36VDC	UC40736D			31627		
48VDC	UC40748D			31628		
110VDC	UC407110D			31629		
220VDC	UC407220D			31630		
	Ø100			12VAC	UC41012A	31631
				24VAC	UC41024A	31632
		36VAC	UC41036A	31633		
		48VAC	UC41048A	31634		
		110VAC	UC410110A	31635		
		127VAC	UC410127A	31636		
		220VAC	UC410220A	31637		
		380VAC	UC410380A	31638		
		12VDC	UC41012D	31639		
		24VDC	UC41024D	31640		
		36VDC	UC41036D	31641		
		48VDC	UC41048D	31642		
		110VDC	UC410110D	31643		
		220VDC	UC410220D	31644		
			Ø150	12VAC	UC41512A	31645
				24VAC	UC41524A	31646
36VAC	UC41536A			31647		
48VAC	UC41548A			31648		
110VAC	UC415110A			31649		
127VAC	UC415127A			31650		
220VAC	UC415220A			31651		
380VAC	UC415380A			31652		
12VDC	UC41512D			31653		
24VDC	UC41524D			31654		
36VDC	UC41536D			31655		
48VDC	UC41548D			31656		
110VDC	UC415110D			31657		
220VDC	UC415220D			31658		

UC4	Diameter Ø (mm)	Rated voltage	Type code	Order code		
	Ø200	12VAC	UC42012A	31659		
		24VAC	UC42024A	31660		
		36VAC	UC42036A	31661		
		48VAC	UC42048A	31662		
		110VAC	UC420110A	31663		
		127VAC	UC420127A	31664		
		220VAC	UC420220A	31665		
		380VAC	UC420380A	31666		
		12VDC	UC42012D	31667		
		24VDC	UC42024D	31668		
		36VDC	UC42036D	31669		
		48VDC	UC42048D	31670		
		110VDC	UC420110D	31671		
		220VDC	UC420220D	31672		
			Ø250	12VAC	UC42512A	31673
				24VAC	UC42524A	31674
36VAC	UC42536A			31675		
48VAC	UC42548A			31676		
110VAC	UC425110A			31677		
127VAC	UC425127A			31678		
220VAC	UC425220A			31679		
380VAC	UC425380A			31680		
12VDC	UC42512D			31681		
24VDC	UC42524D			31682		
36VDC	UC42536D			31683		
48VDC	UC42548D			31684		
110VDC	UC425110D			31685		
220VDC	UC425220D			31686		
	Ø300			12VAC	UC43012A	31687
				24VAC	UC43024A	31688
		36VAC	UC43036A	31689		
		48VAC	UC43048A	31690		
		110VAC	UC430110A	31691		
		127VAC	UC430127A	31692		
		220VAC	UC430220A	31693		
		380VAC	UC430380A	31694		
		12VDC	UC43012D	31695		
		24VDC	UC43024D	31696		
		36VDC	UC43036D	31697		
		48VDC	UC43048D	31698		
		110VDC	UC430110D	31699		
		220VDC	UC430220D	31700		

Electric Bell & Buzzers Series SCF

Selection and ordering data

SCF	Diameter Ø (mm)	Rated voltage	Type code	Order code
	Ø100	12VAC	SCF1012A	31701
		24VAC	SCF1024A	31702
		36VAC	SCF1036A	31703
		48VAC	SCF1048A	31704
		110VAC	SCF10110A	31705
		127VAC	SCF10127A	31706
		220VAC	SCF10220A	31707
		380VAC	SCF10380A	31708
		12VDC	SCF1012D	31709
		24VDC	SCF1024D	31710
		36VDC	SCF1036D	31711
		48VDC	SCF1048D	31712
		110VDC	SCF10110D	31713
		220VDC	SCF10220D	31714
			Ø125	12VAC
24VAC	SCF1224A			31716
36VAC	SCF1236A			31717
48VAC	SCF1248A			31718
110VAC	SCF12110A			31719
127VAC	SCF12127A			31720
220VAC	SCF12220A			31721
380VAC	SCF12380A			31722
12VDC	SCF1212D			31723
24VDC	SCF1224D			31724
36VDC	SCF1236D			31725
48VDC	SCF1248D			31726
110VDC	SCF12110D			31727
220VDC	SCF12220D			31728
	Ø150			12VAC
		24VAC	SCF1524A	31730
		36VAC	SCF1536A	31731
		48VAC	SCF1548A	31732
		110VAC	SCF15110A	31733
		127VAC	SCF15127A	31734
		220VAC	SCF15220A	31735
		380VAC	SCF15380A	31736
		12VDC	SCF1512D	31737
		24VDC	SCF1524D	31738
		36VDC	SCF1536D	31739
		48VDC	SCF1548D	31740
		110VDC	SCF15110D	31741
		220VDC	SCF15220D	31742

SCF	Diameter Ø (mm)	Rated voltage	Type code	Order code
	Ø200	12VAC	SCF2012A	31743
		24VAC	SCF2024A	31744
		36VAC	SCF2036A	31745
		48VAC	SCF2048A	31746
		110VAC	SCF20110A	31747
		127VAC	SCF20127A	31748
		220VAC	SCF20220A	31749
		380VAC	SCF20380A	31750
		12VDC	SCF2012D	31751
		24VDC	SCF2024D	31752
		36VDC	SCF2036D	31753
		48VDC	SCF2048D	31754
		110VDC	SCF20110D	31755
		220VDC	SCF20220D	31756
			Ø250	12VAC
24VAC	SCF2524A			31758
36VAC	SCF2536A			31759
48VAC	SCF2548A			31760
110VAC	SCF25110A			31761
127VAC	SCF25127A			31762
220VAC	SCF25220A			31763
380VAC	SCF25380A			31764
12VDC	SCF2512D			31765
24VDC	SCF2524D			31766
36VDC	SCF2536D			31767
48VDC	SCF2548D			31768
110VDC	SCF25110D			31769
220VDC	SCF25220D			31770
	Ø300			12VAC
		24VAC	SCF3024A	31772
		36VAC	SCF3036A	31773
		48VAC	SCF3048A	31774
		110VAC	SCF30110A	31775
		127VAC	SCF30127A	31776
		220VAC	SCF30220A	31777
		380VAC	SCF30380A	31778
		12VDC	SCF3012D	31779
		24VDC	SCF3024D	31780
		36VDC	SCF3036D	31781
		48VDC	SCF3048D	31782
		110VDC	SCF30110D	31783
		220VDC	SCF30220D	31784

Electric Bell & Buzzers

Series FM & MS

Technical specifications

- Voltage arrange (V):
- AC: 12, 24, 110, 220, 230, 240
- DC: 12, 24

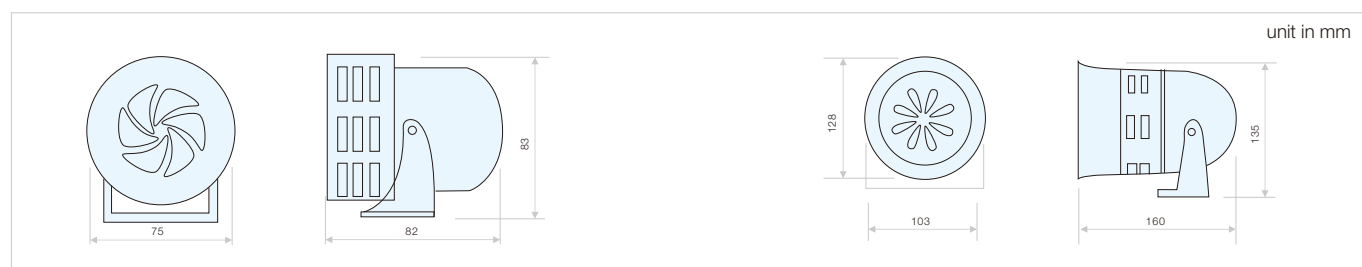


Selection and ordering data

Model	Material	Voltage	Rated voltage V	Type code	Order code	
FM-1	Plastic	AC	12V	FM1 12A	14232	
			24V	FM1 24A	14211	
			110V	FM1 110A	14218	
			220V	FM1 220A	14225	
			230V	FM1 230A	13677	
		DC	24V	FM1 24D	14239	
			AC	12V	FM2 12A	14233
				24V	FM2 24A	14212
				110V	FM2 110A	14219
				220V	FM2 220A	14226
230V	FM2 230A	13678				
DC	24V	FM2 24D	14240			
	AC	12V	FM3 12A	14234		
		24V	FM3 24A	14213		
		110V	FM3 110A	14220		
		220V	FM3 220A	14227		
230V		FM3 230A	13679			
DC	24V	FM3 24D	14241			
	AC	12V	MS190M 12A	14235		
		24V	MS190M 24A	14214		
		110V	MS190M 110A	14221		
		220V	MS190M 220A	14228		
230V		MS190M 230A	13680			
DC	24V	MS190M 24D	14242			
	AC	12V	MS290S 12A	14236		
		24V	MS290S 24A	14215		
		110V	MS290S 110A	14222		
		220V	MS290S 220A	14229		
230V		MS290S 230A	13681			
DC	24V	MS290S 24D	14243			
	AC	12V	MS290M 12A	14237		
		24V	MS290M 24A	14216		
		110V	MS290M 110A	14223		
		220V	MS290M 220A	14230		
230V		MS290M 230A	13682			
DC	24V	MS290M 24D	14244			
	AC	12V	MS390M 12A	14238		
		24V	MS390M 24A	14217		
		110V	MS390M 110A	14224		
		220V	MS390M 220A	14231		
230V		MS390M 230A	13683			
DC	24V	MS390M 24D	14245			



Outline and installation dimensions





Cable Gland & Water-resistant Junction & Insulators

Series PG & MG & SM


Selection and ordering data

Cable gland

	Color	Diameter (mm)	Screw length (mm)	Type code	Order code
	grey	3-6.5	8	PG7	17349
	grey	4-8	8	PG9	17350
	grey	5-10	8	PG11	17351
	grey	6-12	9	PG13.5	17352
	grey	10-14	10	PG16	17353
	grey	13-18	11	PG21	17354
	grey	18-25	11	PG29	17355
	grey	22-32	13	PG36	17356
	grey	30-33	13	PG42	17357
	grey	34-44	13	PG48	17358

	Cable range (mm)	Thread O.D. (mm)	Thread length (mm)	Spanner size (mm)	Black		Grey	
					Type code	Order code	Type code	Order code
	7.6-4.6	12	12	18/19	MG12B	31785	MG12G	31793
	10-6	16	16.5	22/22	MG16B	31786	MG16G	31794
	14-9	20	20.5	27/27	MG20B	31787	MG20G	31795
	18-13	25	25.5	33/33	MG25B	31788	MG25G	31796
	25-18	32	33	41/41	MG32B	31789	MG32G	31797
	30-24	40	41	50/50	MG40B	31790	MG40G	31798
	41-30	50	51	62/62	MG50B	31791	MG50G	31799
	51-40	63	64	75/75	MG63B	31792	MG63G	31800

Insulator

	Screw	Tensile strength (lbs)	Torque strength (ft lbs)	Voltage withstand (kv)	Type code	Order code
	with screw	500	6	6	SM25S	31801
		550	8	8	SM30S	31802
		600	10	10	SM35S	31803
		650	10	12	SM40S	31804
		1000	20	15	SM51S	31805
	without screw	1500	40	25	SM76S	31806
		500	6	6	SM25	31807
		550	8	8	SM30	31808
		600	10	10	SM35	31809
		650	10	12	SM40	31810
		1000	20	15	SM51	31811
		1500	40	25	SM76	31812

Terminal Blocks

Series JXB & 3SUK


Technical specifications

- Standards: IEC60947 & IEC60079
- Material: PA66 and pure copper volume is more than 99%




Phase terminal

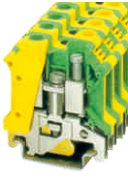
JXB series

	Current	Voltage	Rated working frequency	Cross-sectional		
	A	V	durable voltage kV	area mm ²	Type code	Order code
	24	800	2.5	2.5	JXB-2.5	24781
	32	800	2.5	4	JXB-4	24782
	41	800	2.5	6	JXB-6	24783
	57	800	2.5	10	JXB-10	24784
	76	800	2.5	16	JXB-16	24785
	150	1000	2.5	35	JXB-35	13671
	150	1000	2.5	50	JXB-50	13672
	192	1000	2.5	70	JXB-70	13673
	232	1000	2.5	95	JXB-95	13674

3SUK series

	Current A	Voltage V	Connect capacity		Dimensions mm		
			Solid wire mm ²	flexible wire		Type code	Order code
	32	690	0.2-4	0.2-2.5	6.2x42.5x42	3SUK2.5B	34923
	32	800	0.2-4	0.2-2.5	6.2x42.5x42	3SUK3N	34924
	41	800	0.2-6	0.2-4	6.2x42.5x47	3SUK5N	34925
	57	800	0.2-10	0.2-2.6	6.2x42.5x47	3SUK6N	34926
	76	800	0.5-16	0.5-10	10.2x42.5x47	3SUK10N	34927
	101	800	2.5-25	4-16	12.2x42.5x54	3SUK16N	34928
	150	1000	0.75-50	0.75-35	15.2x50x62	3SUK35N	34929
	150	1000	16-50	25-50	20x70.5x83.5	3SUKH50	34930
	232	1000	25-95	35-95	25x83x97.5	3SUKH95	34931
	309	1000	35-150	50-150	31x100x118.5	3SUKH150	34932

Earth terminal blocks


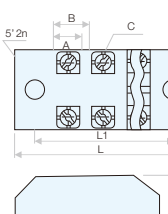
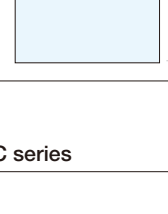

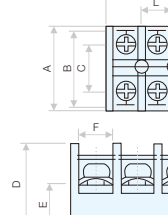

	Current A	Connect capacity		Dimensions mm		
		Solid wire mm ²	flexible wire		Type code	Order code
	10	0.14-0.75	0.14-0.75	64.2x42.5x42	USLKG1.5	14274
	32	0.2-1.5	0.2-1.5	6.2x42.5x42	USLKG2.5	38868
	32	0.2-1.5	0.2-1.5	5.2x42.5x47	USLKG3	38869
	41	0.2-1.5	0.2-1.5	6.2x42.5x47	USLKG5	38870
	57	0.2-2.5	0.2-2.5	8.2x42.5x47	USLKG6N	38871
	76	0.5-4	0.5-4	10.2x42.5x47	USLKG10N	38872
	101	1.5-6	1.5-4	12.2x42.5x54	USLKG16N	38873
	150	0.75-16	0.75-10	15.2x50x62	USLKG35N	38874
	150	10-16	10-16	20x70.5x81.5	USLKG50	38875
	232	25-35	25-35	25x83x99	USLKG95	14275

Accessories for JXB terminals


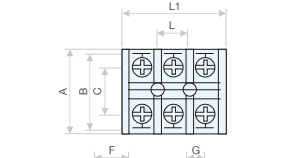




Description	Type code	Order code
	Earthing terminal	EK2.5
EK4		13696
EK6		13697
EK10		13698
EK16		13699
Partition board	AP2.5	24786
	AP4/6/10	24787
	AP16	24788
	AP35	13675
	AP70	13676
Fixed parts	EW35	24789
Blank mark	LZB6B	24790
	LZB6H	24791
	LZB6V	24792

Terminal connecto

Series TB, TC

Rated current A	Number of poles			Dimensions							
		Type code	Order code	L	L1	A	B	C	D	E	
				mm							
	3	TB1503	14276	46	36.5	7.5	9	M3	22	17	
	4	TB1504	14277	55	45.5	7.5	9	M3	22	17	
	6	TB1506	14278	73	63.5	7.5	9	M3	22	17	
	12	TB1512	14279	127	118	7.5	9	M3	22	17	
	3	TB2503	14280	50	40	10.5	12	M4	30	20	
	4	TB2504	14281	62.5	57	10.5	12	M4	30	20	
	6	TB2506	14282	91	81.5	10.5	12	M4	30	20	
	12	TB2512	14283	163	153	10.5	12	M4	30	20	
	3	TB3503	14284	50	40	10.5	12	M4	30	20	
	4	TB3504	14285	62.5	57	10.5	12	M4	30	20	
	6	TB3506	14286	91	81.5	10.5	12	M4	30	20	
	3	TB4503	14288	70	60.5	15	17	M5	38	23.5	
	4	TB4504	14289	86	75.5	15	17	M5	38	23.5	
	6	TB4506	14290	121	110	15	17	M5	38	23.5	
	3	TB6003	14291	70.5	65.5	15.5	18	M6	38	31	
	4	TB6004	14292	93.5	82.5	15.5	18	M6	38	31	
	6	TB6006	14293	129	118	15.5	18	M6	38	31	
	3	TB1003	14294	86.5	75.5	22	20	M6	43.5	35	
	4	TB1004	14295	108	96	22	20	M6	43.5	35	
	6	TB1006	14296	153	140	22	20	M6	43.5	35	


TC series

Rated current A	Number of poles			Dimensions									
		Type code	Order code	L	L1	A	B	C	D	E	F	G	
				mm									
	3	TC603	14297	28.5	86.5	38	42.7	25.5	31	15	17	M6	
	4	TC604	14298	28.5	115	38	42.7	25.5	31	15	17	M6	
	3	TC1003	14299	34.5	114	46.5	55.2	28	36.3	17.3	22.5	M6	
	4	TC1004	14300	34.5	138	46.5	55.2	28	36.3	17.3	22.5	M6	
	3	TC1503	14301	38.5	115	57.2	67	30.5	40	19.8	25.3	M8	
	4	TC1504	14302	38.5	153	57.2	67	30.5	40	19.8	25.3	M8	
	3	TC2003	14303	44.5	133	63	72.1	34	44.4	23	28.3	M8	
	4	TC2004	14304	44.5	177	63	72.1	34	44.4	23	28.3	M8	
	3	TC3003	14305	55	164	78	89.4	47.5	50.6	27	30	M10	
	4	TC3004	14306	55	218	78	89.4	47.5	50.6	27	30	M10	
	3	TC4003	14307	55	164	78	89.4	47.5	50.6	27	36	M10	
	4	TC4004	14308	55	218	78	89.4	47.5	50.6	27	36	M10	


Terminal Blocks

Series HFW

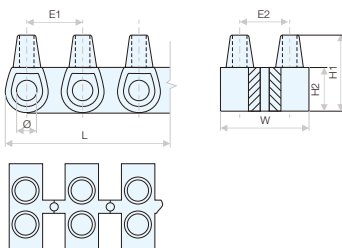
Terminal block

Color	Rated current A	Connect capacity mm ²	Screw size	Type code	Order code	Type code	Order code	Type code	Order code
U type									
Black 	3	4	M2.5x4	U003-01EB	29597	U003-01PB	29598	U003-01AB	29599
	6	6	M3x4.5	U003-02EB	29600	U003-02PB	29601	U003-02AB	29602
	10	10	M3x6	U003-03EB	29603	U003-03PB	29604	U003-03AB	29605
	15	12	M4x6.5	U003-04EB	29606	U003-04PB	29607	U003-04AB	29608
	20	14	M4x6.5	U003-05EB	29609	U003-05PB	29610	U003-05AB	29611
	30	16	M4x7	U003-06EB	29612	U003-06PB	29613	U003-06AB	29614
	60	25	M5x9	U003-07EB	29615	U003-07PB	29616	U003-07AB	29617
	80	35	M5x12	U003-08EB	29618	U003-08PB	29619	U003-08AB	29620
	100	40	M5x12	U003-09EB	29621	U003-09PB	29622	U003-09AB	29623
Transparent	3	4	M2.5x4	U003-01ET	32585	U003-01PT	32586	U003-01AT	32587
	6	6	M3x4.5	U003-02ET	32588	U003-02PT	32589	U003-02AT	32590
	10	10	M3x6	U003-03ET	32591	U003-03PT	32592	U003-03AT	32593
	15	12	M4x6.5	U003-04ET	32594	U003-04PT	32595	U003-04AT	32596
	20	14	M4x6.5	U003-05ET	32597	U003-05PT	32598	U003-05AT	32599
	30	16	M4x7	U003-06ET	32600	U003-06PT	32601	U003-06AT	32602
	60	25	M5x9	U003-07ET	32607	U003-07PT	32608	U003-07AT	32609
	80	35	M5x12	U003-08ET	32610	U003-08PT	32611	U003-08AT	32612
	100	40	M5x12	U003-09ET	32613	U003-09PT	32614	U003-09AT	32615

H type

Black 	3	4	M2.5x4	H001-01EB	14309	H001-01PB	14310	H001-01AB	14311
	6	6	M3x4.5	H001-02EB	14312	H001-02PB	14313	H001-02AB	14314
	10	10	M3x6	H001-03EB	14315	H001-03PB	14316	H001-03AB	14317
	15	12	M4x6.5	H001-04EB	14318	H001-04PB	14319	H001-04AB	14320
	20	14	M4x6.5	H001-05EB	14321	H001-05PB	14322	H001-05AB	14323
	30	16	M4x7	H001-06EB	14324	H001-06PB	14325	H001-06AB	14326
	60	25	M5x9	H001-07EB	14327	H001-07PB	14328	H001-07AB	14329
	80	35	M5x12	H001-08EB	14330	H001-08PB	14331	H001-08AB	14332
	100	40	M5x12	H001-09EB	14333	H001-09PB	14334	H001-09AB	14335
Transparent	3	4	M2.5x4	H001-01ET	14651	H001-01PT	14652	H001-01AT	14653
	6	6	M3x4.5	H001-02ET	14654	H001-02PT	14655	H001-02AT	14656
	10	10	M3x6	H001-03ET	14657	H001-03PT	14658	H001-03AT	14659
	15	12	M4x6.5	H001-04ET	14660	H001-04PT	14661	H001-04AT	14662
	20	14	M4x6.5	H001-05ET	14663	H001-05PT	14664	H001-05AT	14665
	30	16	M4x7	H001-06ET	14666	H001-06PT	14667	H001-06AT	14668
	60	25	M5x9	H001-07ET	14669	H001-07PT	14670	H001-07AT	14671
	80	35	M5x12	H001-08ET	32579	H001-08PT	32580	H001-08AT	32581
	100	40	M5x12	H001-09ET	32582	H001-09PT	32583	H001-09AT	32584

Type	L mm	W	H1	H2	Ø	E1	E2
U003-01	91.4	15.6	10.8	6.4	3	7.5	5.8
U003-02	112.5	16	12.8	7.5	3.2	9.5	6.2
U003-03	128	20.6	15	8.6	4.2	10.8	7.3
U003-04	137.3	22.5	16.6	9	4.5	11.5	8.1
U003-05	137.5	22	17.7	9.9	4.7	12	8.4
U003-06	164.5	25.3	19	10.7	5.6	19	9.3
U003-07	185.5	29.2	24	13.3	6.6	15.8	13
U003-08	204.5	32.6	27.2	14	7	17.3	14.8
U003-09	250	45.6	30.6	18	8.8	21.5	21.6
H001-01	92.3	16.8	12.3	7.7	3	7.8	5.7
H001-02	115.4	18.8	15.4	8.7	3.2	9.6	6.3
H001-03	129.3	20.7	16	9.5	4.2	11	7.6
H001-04	137.8	22.5	18.6	10.3	4.5	11.7	8.6
H001-05	138	22.5	19	10.7	4.7	12	8.6
H001-06	164	22.5	20	11.7	5.6	13.7	9.3
H001-07	186	29.2	25.3	14.8	6.6	15.7	10.8
H001-08	226.8	36.1	29	18	7.8	19.2	13.2
H001-09	254.6	45	34.7	22.3	9	20.5	19.2



Function

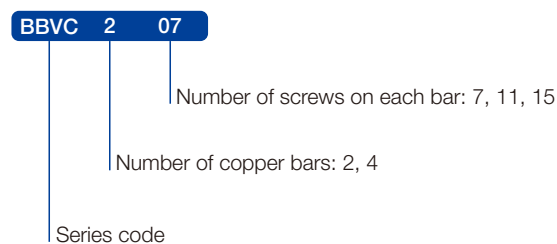
- Applied to DIN rail and Power Distribution Cabinet
- Facilitating the connection of complex wires
- Protecting the terminal blocks inside
- Insulation protection for each phase

Features



- Standard: IEC 60947-7-1
- Voltage: 500 V
- Color: Blue/Grey
- Material:
 - PA, Polyamide 66, 94 V-2 grade. inflaming ratarding, good resist dissolve, good bounce impact force, Working
 - PC Polycarbonate, good glossniess, inflaming retarding, bouce impact force and good thermal stability, Working
- Temperature: -30 °C ~ 110 °C;
- PC Polycarbonate, good glossniess, inflaming retarding, bouce impact force and good thermal stability, Working
- Temperature: -60 °C ~ 135 °C;
- Degree of Protection: IP20



Instruction of type code



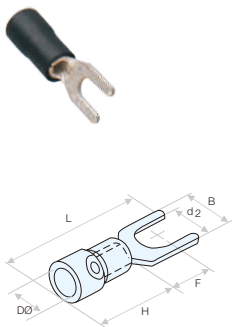
Selection and ordering data

	type	NO. of Phase	Cross Sectional area for copper stock (mm ²)	Outline Dimensions (mm)	Type code	Order code
	2	7	6.5×12	65×45×51	BBVC207	36537
		11	6.5×12	100×45×51	BBVC211	36538
		15	6.5×12	132×45×51	BBVC215	36539
	4	7	6.5×12	65×88×51	BBVC407	36540
		11	6.5×12	100×88×51	BBVC411	36541
		15	6.5×12	132×88×51	BBVC415	36542

Preinsulated Terminals

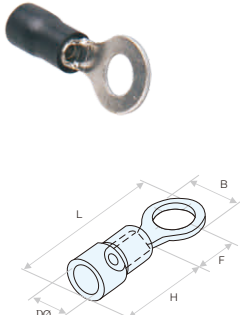
Selection and ordering data

Fork/spade terminals

	Conductor size (AWG) mm ²	I _{max} A	Color	American bolt number			Dimensions					
					Type code	Order code	d2	B	L	F	H	DØ
							mm					
	0.5-1.5 (22-16)	19	Red	#4	SV1.25-3	16747	3.2	5.7	21.6	6.5	10.0	4.3
				#6	SV1.25-3.5S	16748	3.7	5.7	21.6	6.5	10.0	4.3
				#6	SV1.25-3.5L	16749	3.7	6.4	21.8	6.5	10.0	4.3
				#8	SV1.25-4S	16750	4.3	8.0	21.2	6.5	10.0	4.3
				#8	SV1.25-4M	16751	4.3	7.2	21.2	6.5	10.0	4.3
				#8	SV1.25-4L	16752	4.3	8.1	21.2	6.5	10.0	4.3
				#10	SV1.25-5S	16753	5.3	8.1	21.2	6.5	10.0	4.3
				#10	SV1.25-5L	16754	5.3	9.5	21.2	6.5	10.0	4.3
	1/4	SV1.25-6S	16755	6.4	9.5	21.2	6.5	10.0	4.3			
	1/4	SV1.25-6L	16756	6.4	12.0	27.2	11.0	10.0	4.3			
	1.5-2.5 (16-14)	27	Blue	#4	SV2-3	16757	3.2	5.7	21.6	6.5	10.6	4.9
				#6	SV2-3.5S	16758	3.7	5.7	21.2	6.5	10.6	4.9
				#6	SV2-3.5L	16759	3.7	6.0	21.2	6.5	10.6	4.9
				#8	SV2-4S	16760	4.3	6.4	21.2	6.5	10.6	4.9
#8				SV2-4M	16761	4.3	7.2	21.2	6.5	10.6	4.9	
#8				SV2-4L	16762	4.3	8.1	21.2	6.5	10.6	4.9	
#10				SV2-5S	16763	5.3	8.1	21.2	6.5	10.6	4.9	
#10				SV2-5L	16764	5.3	9.5	21.2	6.5	10.6	4.9	
2.5-4 (14-12)	37	Black	1/4	SV2-6S	16765	6.4	9.5	21.2	6.5	10.6	4.9	
			1/4	SV2-6L	16766	6.4	12.0	27.8	11.0	10.6	4.9	
			#4	SV3.5-3	16767	3.2	5.7	26.8	7.0	13.0	6.2	
			#8	SV3.5-4	16768	4.3	8.0	24.8	7.0	13.0	6.2	
4-6 (12-10)	48	Yellow	#10	SV3.5-5	16769	5.3	8.0	24.8	7.0	13.0	6.2	
			1/4	SV3.5-6	16770	6.4	12.1	28.3	12.1	13.0	6.2	
			#6	SV5.5-3.5	16771	3.7	8.4	26.0	7.5	13.0	6.7	
			#8	SV5.5-4S	16772	4.3	8.4	26.0	7.5	13.0	6.7	
			#8	SV5.5-4L	16773	4.3	9.0	26.0	7.5	13.0	6.7	
			#10	SV5.5-5	16774	5.3	9.0	26.0	7.5	13.0	6.7	
			1/4	SV5.5-6S	16775	6.4	9.0	26.0	7.5	13.0	6.7	
			1/4	SV5.5-6L	16776	6.4	12.0	32.0	12.0	13.0	6.7	
			5/16	SV5.5-8	16777	8.4	14.0	31.0	11.5	13.0	6.7	

Selection and ordering data

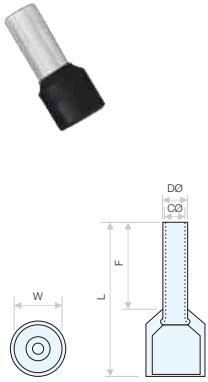
Ring terminals

	Conductor size (AWG) mm ²	I _{max} A	Color	American bolt number			Dimensions								
					Type code	Order code	d2	B	L	F	H	DØ			
							mm								
	0.5-1.5 (22-16)	19	Red	#4	RV1.25-3	16673	3.2	5.7	18.7	5.0	10.6	4.3			
				#6	RV1.25-3.5S	16674	3.7	5.7	18.7	5.0	10.6	4.3			
				#6	RV1.25-3.5M	16675	3.7	6.6	19.4	6.3	10.6	4.3			
				#6	RV1.25-3.5L	16676	3.7	8.0	21.2	7.0	10.6	4.3			
				#8	RV1.25-4S	16677	4.3	6.6	19.4	6.3	10.6	4.3			
				#8	RV1.25-4L	16678	4.3	8.0	21.2	7.0	10.6	4.3			
				#10	RV1.25-5S	16679	5.3	8.0	21.2	7.0	10.6	4.3			
				#10	RV1.25-5L	16680	5.3	9.8	23.0	8.5	10.6	4.3			
				1/4	RV1.25-6S	16681	6.4	9.8	23.0	8.5	10.6	4.3			
				1/4	RV1.25-6L	38547	6.4	11.6	26.8	11.1	10.6	4.3			
				5/16	RV1.25-8	16682	8.4	11.6	27.4	11.1	10.6	4.3			
				3/8	RV1.25-10	16683	10.5	13.6	27.4	13.9	10.6	4.3			
				1/2	RV1.25-12	16684	13.0	19.2	37.3	16.5	10.6	4.3			
				0.5-2.5 (16-14)	27	Blue	#4	RV2-3	16685	3.2	6.6	17.5	4.3	10.6	4.9
							#6	RV2-3.5S	16686	3.7	6.6	17.5	4.3	10.6	4.9
							#8	RV2-3.5M	16687	3.7	6.6	20.0	6.2	10.6	4.9
							#6	RV2-3.5L	16688	3.7	8.5	22.8	7.8	10.6	4.9
#8	RV2-4S	16689	4.3				6.6	20.0	6.2	10.6	4.9				
#8	RV2-4L	16690	4.3				8.5	22.8	7.8	10.6	4.9				
#10	RV2-5S	16691	5.3				8.5	22.0	7.8	10.6	4.9				
#10	RV2-5L	16692	5.3				9.5	22.6	7.3	10.6	4.9				
1/4	RV2-6	16693	6.4				11.9	27.2	11.0	10.6	4.9				
5/16	RV2-8	16694	8.4				11.9	27.2	11.0	10.6	4.9				
3/8	RV2-10	16695	10.5				13.6	31.1	13.9	10.6	4.9				
1/2	RV2-12	16696	13.0				19.2	36.8	16.5	10.6	4.9				
2.5-4 (14-12)	37	Black	#8	RV3.5-4	16697	4.3	8.0	24.5	7.7	13.5	6.2				
			#10	RV3.5-5S	16698	5.3	8.0	24.5	7.7	13.5	6.2				
			#10	RV3.5-5L	16699	5.3	12.0	29.0	7.7	13.5	6.2				
			1/4	RV3.5-6	16700	6.4	12.0	29.0	7.7	13.5	6.2				
4-6 (12-10)	48	Yellow	#6	RV5.5-3.5	16701	3.7	7.2	22.0	5.3	13.5	6.7				
			#8	RV5.5-4S	16702	4.3	7.2	22.0	5.3	13.5	6.7				
			#8	RV5.5-4L	16703	4.3	9.5	26.2	8.3	13.5	6.7				
			#10	RV5.5-5	16704	5.3	9.5	26.2	8.3	13.5	6.7				
			1/4	RV5.5-6S	16705	6.4	12.0	32.1	10.7	13.5	6.7				
			1/4	RV5.5-6L	27290	6.4	12.0	32.8	13.0	13.5	6.7				
			5/16	RV5.5-8	16706	8.4	15.0	34.0	13.7	13.5	6.7				
			3/8	RV5.5-10	16707	10.5	15.0	34.0	13.7	13.5	6.7				
			1/2	RV5.5-12	16708	13.0	19.2	38.8	16.0	13.5	6.7				

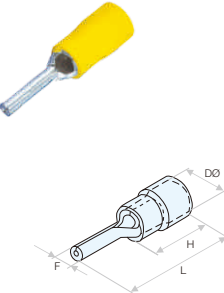
Preinsulated Terminals

Selection and ordering data

Insulated end terminals

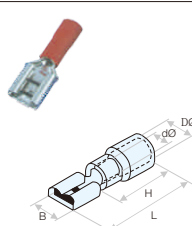
	Conductor size (AWG) mm ²	Color Germany		Color France		Dimensions						
		Type code	Order code	Type code	Order code	B	L	F	H	DØ		
						mm						
	0.5 (22)	Orange	E0506GC	16900	White	E0506FW	16386	6.0	12.0	3.4	1.3	1.0
			E0508GC	16901		E0508FW	16387	8.0	14.0	3.4	1.3	1.0
			E0510GC	16902		E0510FW	16388	10.0	16.0	3.4	1.3	1.0
			E0512GC	16903		E0512FW	16389	12.0	18.0	3.4	1.3	1.0
	0.75 (20)	White	E7506GW	16928	Blue	E7506FB	16414	6.0	12.4	3.4	1.5	1.2
			E7508GW	16929		E7508FB	16415	8.0	14.4	3.4	1.5	1.2
			E7510GW	16931		E7510FB	16417	10.0	16.4	3.4	1.5	1.2
	E7512GW		16932	E7512FB		16418	12.0	18.4	3.4	1.5	1.2	
	1.0 (18)	Yellow	E1006GY	16904	Red	E1006FR	16390	6.0	12.5	3.6	1.7	1.4
			E1008GY	16905		E1008FR	16391	8.0	14.5	3.6	1.7	1.4
			E1010GY	16907		E1010FR	16393	10.0	16.5	3.6	1.7	1.4
			E1012GY	16908		E1012FR	16394	12.0	18.5	3.6	1.7	1.4
	1.5 (16)	Red	E1508GR	16911	Black	E1508FK	16397	8.0	15.4	4.0	2.0	1.7
			E1510GR	16913		E1510FK	16399	10.0	17.4	4.0	2.0	1.7
			E1512GR	16914		E1512FK	16400	12.0	19.4	4.0	2.0	1.7
			E1518GR	16916		E1518FK	16402	18.0	25.4	4.0	2.0	1.7
E2508GB			16917	Grey		E2508FH	16403	8.0	15.0	4.6	2.6	2.3
E2510GB	16918	E2510FH	16404		10.0	17.0	4.6	2.6	2.3			
E2512GB	16919	E2512FH	16405		12.0	19.0	4.6	2.6	2.3			
4.0 (12)	Grey	E2518GB	16920	Orange	E2518FH	16406	18.0	25.0	4.6	2.6	2.3	
		E4009GH	16922		E4009FC	16408	9.0	17.0	5.5	3.2	2.8	
		E4012GH	16924		E4012FC	16410	12.0	21.0	5.5	3.2	2.8	
E4018GH		16925	E4018FC		16411	18.0	27.0	5.5	3.2	2.8		
6.0 (10)	Black	E6010GK	25736	Green	E6010FG	25737	10.0	19.0	6.7	3.9	3.5	
		E6012GK	16926		E6012FG	16412	12.0	21.0	6.7	3.9	3.5	
		E6018GK	16927		E6018FG	16413	18.0	26.0	6.7	3.9	3.5	
10.0 (7)	White	E10-12GW	16934	Brown	E10-12FZ	16420	12.0	20.8	8.3	4.9	4.5	
		E10-18GW	16935		E10-18FZ	16421	18.0	26.8	8.3	4.9	4.5	
16.0 (5)	Green	E16-12GG	16936	White	E16-12FW	16422	12.0	22.2	9.4	6.2	5.8	
		E16-18GG	16937		E16-18FW	16423	18.0	27.6	9.4	6.2	5.8	
25.0 (4)	Black	E25-16GK	16940	Brown	E25-16FZ	16426	16.0	27.6	11.7	7.9	7.5	
		E25-22GK	16942		E25-22FZ	16428	22.0	33.5	11.7	7.9	7.5	
35.0 (2)	Brown	E35-16GZ	16943	Grey	E35-16FH	16429	16.0	30.0	13.0	8.7	8.3	
		E35-25GZ	16946		E35-25FH	16432	25.0	39.0	13.0	8.7	8.3	
50.0 (1)	Olive	E50-20GL	25739	Blue	E50-20FB	16434	20.0	35.5	15.8	10.9	10.3	
		E50-25GL	25740		E50-25FB	16435	25.0	40.5	15.8	10.9	10.3	

Insulated end terminals

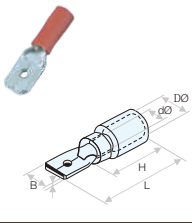
	Conductor size (AWG) mm ²	Imax A	Color Germany	Dimensions					
				Type code	Order code	F	L	H	DØ
						mm			
	0.5-1.5 (22-16)	19	Red	PTV1.25-9	16594	1.9	19.0	10.6	4.3
				PTV1.25-10	16595	1.9	20.6	10.6	4.3
				PTV1.25-12	16596	1.9	22.6	10.6	4.3
				PTV1.25-13	16597	1.9	23.6	10.6	4.3
				PTV1.25-18	16598	1.9	28.6	10.6	4.3
				1.5-2.5 (16-14)	27	Blue	PTV2-9	16599	1.9
PTV2-10	16600	1.9	20.6				10.6	4.9	
PTV2-12	16601	1.9	22.0				10.6	4.9	
PTV2-13	16602	1.9	23.0				10.6	4.9	
PTV2-18	16603	1.9	28.6				10.6	4.9	
2.5-4 (14-12)	36	Black	PTV3.5-10				25741	2.8	20.0
			PTV3.5-12	25742	2.8	25.5	13.0	6.2	
4-6 (12-10)	48	Yellow	PTV5.5-13	16604	2.8	26.0	13.5	6.7	

Selection and ordering data

Female disconnect terminals

	Conductor size (AWG) mm ²	I _{max} A	Color	Tab size			Dimensions				
					Type code	Order code	mm				
							B	dØ	DØ	L	H
	0.5-1.5 (22-16)	10	Red	0.5 x 2.8	FDD1.25-110(5)	16542	3.8	3.8	1.7	18.7	10.6
				0.8 x 2.8	FDD1.25-110(8)	16543	3.8	3.8	1.7	18.7	10.6
				0.5 x 4.75	FDD1.25-187(5)	16544	5.6	3.8	1.7	18.7	10.6
				0.8 x 4.75	FDD1.25-187(8)	16545	5.6	3.8	1.7	18.7	10.6
				0.5 x 5.2	FDD1.25-205	16546	6.5	3.8	1.7	20.0	10.6
	1.5-2.5(16-14)	15	Blue	0.8 x 6.35	FDD1.25-250	16547	7.4	3.8	1.7	21.0	10.6
				0.5 x 2.8	FDD2-110(5)	16548	3.8	4.3	2.3	18.7	10.6
				0.8 x 2.8	FDD2-110(8)	16549	3.8	4.3	2.3	18.7	10.6
				0.5 x 4.75	FDD2-187(5)	16550	5.6	4.3	2.3	18.7	10.6
				0.8 x 4.75	FDD2-187(8)	16551	5.6	4.3	2.3	18.7	10.6
4-6 (12-10)	24	Yellow	0.5 x 5.2	FDD2-205	16552	6.5	4.3	2.3	19.7	10.6	
			0.8 x 6.35	FDD2-250	16553	7.4	4.3	2.3	21.4	10.6	
		0.8 x 8.0	FDD2-312	16554	8.9	4.3	2.3	24.1	10.6		
		Black	0.8 x 6.35	FDD5.5-250	16555	7.4	5.7	3.4	24.5	13.0	
			1.2 x 9.4	FDD5.5-375	16556	10.9	5.7	3.4	29.3	13.5	

Female disconnect terminals

	Conductor size (AWG) mm ²	I _{max} A	Color	Tab size			Dimensions				
					Type code	Order code	mm				
							B	dØ	DØ	L	H
	0.5-1.5 (22-16)	10	Red	0.5 x 2.8	MDD1.25-110(5)	16564	2.8	4.3	1.7	17.7	10.6
				0.8 x 2.8	MDD1.25-110(8)	16565	2.8	4.3	1.7	17.7	10.6
				0.5 x 4.75	MDD1.25-187(5)	16566	4.8	4.3	1.7	20.0	10.6
				0.8 x 4.75	MDD1.25-187(8)	16567	4.8	4.3	1.7	20.0	10.6
				0.8 x 6.35	MDD1.25-250	16568	6.4	4.3	1.7	21.6	10.6
	1.5-2.5 (16-14)	15	Blue	0.5 x 4.75	MDD2-187(5)	16569	4.8	4.3	2.3	20.0	10.6
				0.8 x 4.75	MDD2-187(8)	16570	4.8	4.3	2.3	20.0	10.6
				0.8 x 6.35	MDD2-250	16571	6.4	4.3	2.3	21.6	10.6
	4-6 (12-10)	24	Yellow	0.8 x 6.35	MDD5.5-250	16572	6.4	5.7	3.4	25.5	13.5

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