



11 LMH...



11 LMU... - 11 LMA...



11 SMX90 32



11 SMX90 30



11 SMX90 31



11 LMZ111 - 11 LMZ112



11 LMZ113 - 11 LMZ114



11 LMZ105



11 LMZ106



11 LMNPE



23 NEON...V

Order code	Characteristics	Qty per pkg	Wt [kg]
		n°	[kg]

Add-on auxiliary contacts. Side mount.

11 LMH 01	1NC	10	0.037
11 LMH 10	1NO	10	0.036
11 LMH 11	1NO + 1NC	10	0.042
11 LMH 20	2NO	10	0.037

Undervoltage trip release.

11 LMU [Ⓢ]	To fit inside starter. For all types	10	0.066
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Shunt trip release.

11 LMA [Ⓢ]	To fit inside starter. For all types	10	0.064
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Terminal block for busbar supply.

11 SMX90 30	For all types	10	0.048
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Safety cover.

11 SMX90 31	For unused busbar terminals	10	0.005
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Three-phase connection busbars 45mm/1.77" spacing.

11 SMX90 32	For 2 breakers without side-mount contacts	10	0.028
11 SMX90 33	For 3 breakers without side-mount contacts	10	0.050
11 SMX90 34	For 4 breakers without side-mount contacts	10	0.071
11 SMX90 35	For 5 breakers without side-mount contacts	10	0.092

Three-phase connection busbars 54mm/2.13" spacing.

11 SMX90 42	For 2 breakers complete with side-mount contacts	10	0.031
11 SMX90 43	For 3 breakers complete with side-mount contacts	10	0.056
11 SMX90 44	For 4 breakers complete with side-mount contacts	10	0.081
11 SMX90 45	For 5 breakers complete with side-mount contacts	10	0.089

Surface mount enclosures.

11 LMZ 111	IP55. 80mm/3.15" wide	1	0.260
11 LMZ 112	IP54. 80mm/3.15" wide	1	0.273
11 LMZ 113	IP55. 85mm/3.35" wide	1	0.204
11 LMZ 114	IP41. 85mm/3.35" wide	1	0.184

Flush mount enclosures.

11 LMZ 113	IP55. 85mm/3.35" wide	1	0.204
11 LMZ 114	IP41. 85mm/3.35" wide	1	0.184

ACCESSORIES FOR ENCLOSURES.

Locking mechanism.

11 LMZ 105	3 padlocks maximum	10	0.091
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Normal stop button. IP55 protection.

11 LMZ 106	For LMZ 111, LMZ113 and LMZ 114	1	0.051
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Neutral connection.

11 LMN PE	For all types	10	0.010
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Pilot light.

23 NEON [Ⓢ] OV	Green	10	0.006
23 NEON [Ⓢ] R [Ⓢ] OV	Red	10	0.006

Spare rubber membrane complete with rim for enclosures.

11 LMM	For LMZ 111, LMZ113 and LMZ 114 enclosures	10	0.012
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M25 to PG16 entry adapter.

11 LM M25 PG16	For LMZ111 and LMZ112 enclosures	10	0.009
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Ⓢ Specify rated voltage. Add suffix 60 if frequency is 60Hz. Available voltages:

- AC 50Hz 24/48/110/220-240 (indicate 220)/380-415 (indicate 380)/440-460 (indicate 440)/480 and 575VAC.

Ⓢ Complete with required voltage. Available voltages:

- AC 50/60Hz 24/110/220-240 (indicate 220)/380-415 (indicate 380) VAC.

General and operational characteristics

ADD-ON AUXILIARY CONTACTS

- Connectable to right or left side of starter
- Maximum combination: 2 LMH... blocks, one on right and one on left side of starter (4 auxiliary contacts max in total)
- IEC rated insulation voltage U_i : 500V
- IEC conventional free air thermal current I_{th} : 6A
- IEC operational current AC15: 3.5A 230V; 2A 400V
- IEC protection fuse (gL or gG): 6A maximum
- Maximum tightening torque: 1Nm/9lbin
- Conductor cross section minimum-maximum (1 or 2 wires): 0.75-2.5mm² or 18/14 AWG
- Width of the auxiliary contacts LMH... equal to 0.5 standard DIN 43880 modules.

UNDERVOLTAGE AND SHUNT TRIP RELEASES

- Must be fitted inside the motor starter.

	Undervoltage	Shunt
Release range	0.35-0.7Us	—
Operating range	0.85-1.1Us	0.7-1.1Us
On-load factor	100%	—

TERMINAL BLOCK FOR BUSBAR SUPPLY

- I_{max} 63A
- Maximum tightening torque: 2.3Nm/20lbin
- Conductor cross section minimum-maximum: 4-25mm² or 10/4 AWG.

THREE-PHASE CONNECTION BUSBAR

- I_{max} 63A
- SMX90 3... 45mm/1.77" spacing to reduce the width to the minimum
- SMX90 4... 54mm/2.13" spacing to consent to fit one side mount auxiliary contact block on the breaker.

SURFACE MOUNT ENCLOSURE

- Top or bottom entry:
 - M25 threaded knockouts
- Rear entry:
 - 15.5mm/0.6" knockouts
- Up to two auxiliary contact blocks may be mounted
- Earth/ground terminal included
- Operating temperature: -5...+40°C
- Storage temperature: -50...+80°C.

FLUSH MOUNT ENCLOSURE

- Cutout size 70x115mm/2.76x4.53"
- Up to two auxiliary contact blocks may be mounted
- Earth/ground terminal included
- Operating temperature: -5...+40°C
- Storage temperature: -50...+80°C.

ACCESSORIES FOR ENCLOSURES

Locking mechanism:

- Prevents closing operation: 3 padlocks maximum.

Emergency stop button:

- Turn to release
- Red push-button Ø 35mm/1.38"

NOTE: Once mounted on the enclosure, these accessories raise the degree of protection from IP41 to IP55.

Certifications and compliance

Certifications obtained: EAC for all; UL Listed for USA and Canada (cULus - File E155982), under motor controllers, for auxiliary contacts and trip releases.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.