

# LU2MB0ES

Reverser block, TeSys Ultra, 32A, 690VAC, 48 to 72VAC/DC coil, for vertical mounting



## Main

Range	TeSys
Device short name	LU2MB
Product or Component Type	Reverser block
Device mounting	Direct mounting
Device Application	Motor control
[Ie] rated operational current	32 A
[Uc] control circuit voltage	48 V AC 50/60 Hz 48...72 V DC
Current consumption	2300 mA 48 V AC I maximum while closing 2300 mA 48...72 V DC I maximum while closing

## Complementary

[Ue] rated operational voltage	690 V AC power circuit
Network frequency	40...60 Hz
Inrush restraint duration	25 Ms AC 15 ms DC
Operating time	150 ms with change of direction 75 ms without change of direction
Standards	EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier
Product Certifications	CE[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]ASEFA[RETURN]RE[RETURN]AT
[Ui] rated insulation voltage	690 V IEC 60947-6-2 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	6 kVIEC 60947-6-2
Fixing mode	Plug-in
Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) flexible with cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) flexible without cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) rigid Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> ) 0.12 in (3 mm) rigid Power circuit screw clamp terminals 1 0.00...0.02 in <sup>2</sup> (1...10 mm <sup>2</sup> ) 0.16 in (4 mm) rigid Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...6 mm <sup>2</sup> ) 0.16 in (4 mm) flexible with cable end Power circuit screw clamp terminals 1 0.00...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) 0.16 in (4 mm) flexible without cable end Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...6 mm <sup>2</sup> ) 0.16 in (4 mm) flexible with cable end Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...6 mm <sup>2</sup> ) 0.16 in (4 mm) rigid Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...6 mm <sup>2</sup> ) 0.16 in (4 mm) flexible without cable end
Tightening torque	Control circuit 7.08...10.62 lbf.in (0.8...1.2 N.m) flat 0.20 in (5 mm) Control circuit 7.08...10.62 lbf.in (0.8...1.2 N.m) Philips No 2 0.20 in (5 mm) Power circuit 16.82...22.13 lbf.in (1.9...2.5 N.m) flat 0.24 in (6 mm) Power circuit 16.82...22.13 lbf.in (1.9...2.5 N.m) Philips No 2 0.24 in (6 mm)

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Width	1.77 in (45 mm)
Height	3.15 in (80 mm)
Depth	4.13 in (105 mm)
Net Weight	0.88 lb(US) (0.4 kg)
Compatibility code	LU2MB

## Environment

IP degree of protection	IP20 IEC 60947-1 front panel and wired terminals) IP20 IEC 60947-1 other faces) IP40 IEC 60947-1 front panel outside connection zone)
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-13...140 °F (-25...60 °C) with LUCM -13...158 °F (-25...70 °C) with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Fire resistance	1760 °F (960 °C) parts supporting live components IEC 60695-2-12 1202 °F (650 °C) IEC 60695-2-12
Operating altitude	6561.68 ft (2000 m)
Shock resistance	10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27
Vibration resistance	2 gn 5...300 Hz) power poles open IEC 60068-2-27 4 gn 5...300 Hz) power poles closed IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 3, in open air IEC 61000-4-2 8 kV level 4, on contact IEC 61000-4-2
Resistance to radiated fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	2 kV 3 serial link IEC 61000-4-4 4 kV 4 all circuits except for serial link IEC 61000-4-4
Non-dissipating shock wave	1 kV serial mode IEC 60947-6-2 2 kV common mode IEC 60947-6-2
Immunity to radioelectric fields	10 V IEC 61000-4-6

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.12 in (13 cm)
Package 1 Width	2.17 in (5.5 cm)
Package 1 Length	3.74 in (9.5 cm)
Package 1 Weight	13.65 oz (387 g)
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	10.93 lb(US) (4.959 kg)

## Offer Sustainability

REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.