Product data sheet

Specifications

Combination motor starter, TeSys Ultra, self protected, full voltage nonreversing, NEMA size 1

LUB32NR

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys
Product name	TeSys Ultra
Device short name	LUB
Product or Component Type	Non reversing power base
Device Application	Motor control Motor protection
Poles description	3P
Suitability for isolation	Yes
[Ue] rated operational voltage	690 V AC power circuit
Network frequency	40...60 Hz
[Ith] conventional free air thermal current	32 A
[Ie] rated operational current	28.5 A <= 440 V 23 A 500 V 21 A 690 V
Utilisation category	AC-43 AC-44 AC-41
[Ics] rated service breaking capacity	50 kA 230 V 50 kA 440 V 10 kA 500 V 4 kA 690 V
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Linked contacts 1 NO + 1 NC) IEC 60947-4-1 Mirror contact 1 NC) IEC 60947-1
[Uc] control circuit voltage	24 V AC 50/60 Hz 24 V DC 48...72 V AC 50/60 Hz 48...72 V DC 110...240 V AC 50/60 Hz 110...220 V DC

Complementary

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Typical current consumption	200 mA 24 V DC I maximum while closing with LUCM
	220 mA 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	220 mA 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	25 mA 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD
	25 mA 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD
	280 mA 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	280 mA 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	280 mA 48...72 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	280 mA 48...72 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD
	45 mA 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD
	45 mA 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD
	75 mA 24 V DC I rms sealed with LUCM
	80 mA 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD
	90 mA 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD
Heat dissipation	3 W control circuit with LUCA, LUCB, LUCC, LUCD
	1.8 W control circuit with LUCM
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Operating time	35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM control circuit
	50 ms >= 72 V closing with LUCA, LUCB, LUCC, LUCD control circuit
	60 ms 48 V closing with LUCA, LUCB, LUCC, LUCD control circuit
	70 ms 24 V closing with LUCA, LUCB, LUCC, LUCD control circuit
	65 ms closing with LUCM control circuit
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h
Product Certifications	CE
	UL
	CSA
	CCC
	EAC
	ASEFA
	ATEX
	Marine
NEMA size	1
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
[Ui] rated insulation voltage	690 V IEC 60947-6-2 3)
	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
Safe separation of circuit	400 V SELV between the control and auxiliary circuits IEC 60947-1 appendix N
	400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 appendix N
Maximum Horse Power Rating	3 hp at 240 V AC for 1 phase motors
	10 hp at 460 V AC for 3 phase motors
	7.5 hp at 220/240 V AC for 3 phase motors
	2 hp at 120 V AC for 1 phase motors
	10 hp at 575/600 V AC for 3 phase motors
	7.5 hp at 208 V AC for 3 phase motors
	7.5 hp at 200 V AC for 3 phase motors
Fixing mode	Clipped (DIN rail)
	Screw-fixed (plate)

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Connections - terminals	Control circuit screw clamp terminals 1 0.0005…0.002 in² (0.34…1.5 mm²) flexible with cable end
	Control circuit screw clamp terminals 1 0.001…0.002 in² (0.75…1.5 mm²) flexible without cable end
	Control circuit screw clamp terminals 1 0.001…0.002 in² (0.75…1.5 mm²) rigid
	Control circuit screw clamp terminals 2 0.0005…0.002 in² (0.34…1.5 mm²) flexible with cable end
	Control circuit screw clamp terminals 2 0.001…0.002 in² (0.75…1.5 mm²) flexible without cable end
	Control circuit screw clamp terminals 2 0.001…0.002 in² (0.75…1.5 mm²) rigid
	Power circuit screw clamp terminals 1 0.002…0.02 in² (1…10 mm²) rigid
	Power circuit screw clamp terminals 1 0.002…0.009 in² (1…6 mm²) flexible with cable end
	Power circuit screw clamp terminals 1 0.004…0.02 in² (2.5…10 mm²) flexible without cable end
	Power circuit screw clamp terminals 2 0.002…0.009 in² (1…6 mm²) flexible with cable end
	Power circuit screw clamp terminals 2 0.002…0.009 in² (1…6 mm²) rigid
	Power circuit screw clamp terminals 2 0.002…0.009 in² (1.5…6 mm²) flexible without cable end
Tightening torque	Control circuit: 7.08…10.6 lbf.in (0.8…1.2 N.m) flat screwdriver 0.2 in (5 mm)
	Control circuit: 7.08…10.6 lbf.in (0.8…1.2 N.m) Philips no 1 screwdriver 0.2 in (5 mm)
	Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) flat screwdriver 0.2 in (6 mm)
	Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) Philips No 2 screwdriver 0.2 in (6 mm)
	Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) pozidriv No 2 screwdriver 0.2 in (6 mm)
Width	1.8 in (45 mm)
Height	6.06 in (154 mm)
Depth	5.0 in (126 mm)
Net Weight	2.0 lb(US) (0.9 kg)
Compatibility code	LUB

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 3 in open air IEC 61000-4-2
	8 kV 4 on contact IEC 61000-4-2
Non-dissipating shock wave	1 kV serial mode 24...240 V AC IEC 60947-6-2
	1 kV serial mode 48...220 V DC IEC 60947-6-2
	2 kV common mode 24...240 V AC IEC 60947-6-2
	2 kV common mode 48...220 V DC IEC 60947-6-2
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
Resistance to radiated fields	9.1 V/m (10 V/m) 3 IEC 61000-4-3
Immunity to radioelectric fields	10 V IEC 61000-4-6

Immunity to microbreaks	3 ms control circuit
Immunity to voltage dips	70 % / 500 ms IEC 61000-4-11

Ordering and shipping details

Category	US10I1122385
Discount Schedule	0I11
GTIN	3389118367234
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.05 in (5.2 cm)
Package 1 Width	6.69 in (17 cm)
Package 1 Length	5.71 in (14.5 cm)
Package weight(Lbs)	32.0 oz (906 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
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	20.668 lb(US) (9.375 kg)

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ›

How we assess product sustainability ›

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	**30**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
SCIP Number	**61f5a085-dfde-4214-b2cf-ba3cfe0c33b4**
REACh Regulation	**REACh Declaration**
Halogen content performance	**Product contains halogen above thresholds**
PVC free	**Yes**

Use Again

Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**