

Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 225 A - coil 380 V AC

LC1F225Q7

! To be discontinued on: 31 December 2023

! To be end-of-service on: 31 December 2023

! To be discontinued

Product availability : Non-Stock - Not normally stocked in distribution facility

Price* : 1,059.00 USD

Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ie] rated operational current	315 A 104 °F (40 °C) <= 440 V AC-1 225 A 131 °F (55 °C) <= 440 V AC-3
Motor power kW	110 kW 380...400 V AC 50/60 Hz AC-3) 110 kW 415 V AC 50/60 Hz AC-3) 110 kW 440 V AC 50/60 Hz AC-3) 129 kW 500 V AC 50/60 Hz AC-3) 129 kW 660...690 V AC 50/60 Hz AC-3) 63 kW 220...230 V AC 50/60 Hz AC-3) 40 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	380 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	315 A 104 °F (40 °C)
Rated breaking capacity	1800 A IEC 60947-4-1
[Icw] rated short-time withstand current	1800 A 104 °F (40 °C) - 10 s 1000 A 104 °F (40 °C) - 30 s 850 A 104 °F (40 °C) - 1 min 560 A 104 °F (40 °C) - 3 min 440 A 104 °F (40 °C) - 10 min
Associated fuse rating	315 A gG <= 440 V 250 A aM <= 440 V

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

Average impedance	0.32 mOhm - lth 315 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	32 W AC-1 16 W AC-3
Mounting Support	Plate
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1 JIS C8201-4-1
Product certifications	BV UL ABS LROS (Lloyds register of shipping) CCC CB RINA DNV RMRoS UKCA
Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 32 x 4 mm Power circuit lugs-ring terminals 1 0.29 in ² (185 mm ²) Power circuit connector 1 0.29 in ² (185 mm ²) Power circuit bolted connection
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 309.78 lbf.in (35 N.m)
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C) Drop-out 0.35...0.55 Uc 40...400 Hz 131 °F (55 °C)
Inrush power in VA	1070 VA 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	9.9 VA 40...400 Hz 0.9 68 °F (20 °C))
Heat dissipation	8...9.8 W
Operating time	35 ms closing at Uc) 130 ms opening at Uc)
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Compatibility code	LC1F
Environment	
IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient Air Temperature for Operation	23...131 °F (-5...55 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	7.76 in (197 mm)
Width	6.63 in (168.5 mm)
Depth	7.13 in (181 mm)
Net weight	10.47 lb(US) (4.75 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110460117
Nbr. of units in pkg.	1
Package weight(Lbs)	11.57 lb(US) (5.25 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.27 in (21 cm)
Package 1 width	8.66 in (22 cm)
Package 1 Length	9.06 in (23 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Weight	156.53 lb(US) (71 kg)
Package 2 Height	28.74 in (73 cm)
Package 2 width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

LC1F225Q7 is replaced by:

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 225A, advanced version,
200...500V wide band AC/DC coil
LC1G225LSEA
