TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 780 A - coil 380 V AC

Local distributor code: 402886592 LC1F780Q7

EAN Code: 3389110227277

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	380 V AC 40400 Hz
[le] rated operational current	1600 A (at <40 °C) at <= 440 V AC AC-1 780 A (at <55 °C) at <= 440 V AC AC-3

Complementary		
[Uimp] rated impulse withstand voltage	8 kV	
[Ith] conventional free air thermal current	1600 A (at 40 °C)	
Rated breaking capacity	6240 A conforming to IEC 60947-4-1	
[Icw] rated short-time withstand current	3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min	
Associated fuse rating	1600 A gG at <= 440 V 800 A aM at <= 440 V	
Average impedance	0.1 mOhm - Ith 1600 A 50 Hz	
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C	
Power dissipation per pole	250 W AC-1 60 W AC-3	
Overvoltage category	III	
Power pole contact composition	3 NO	
Motor power kW	450 kW at 1000 V AC 50/60 Hz (AC-3) 400 kW at 380400 V AC 50/60 Hz (AC-3)	

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	425 kW at 415 V AC 50/60 Hz (AC-3) 425 kW at 440 V AC 50/60 Hz (AC-3) 450 kW at 500 V AC 50/60 Hz (AC-3) 475 kW at 660690 V AC 50/60 Hz (AC-3) 220 kW at 220230 V AC 50/60 Hz (AC-3) 110 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C) Drop-out: 0.20.4 Uc 40400 Hz (at 55 °C)
Mechanical durability	5 Mcycles
Inrush power in VA	2100 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	50 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	600 cyc/h 55 °C
Operating time	4080 ms closing 130230 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Heat dissipation	44 W
Standards	EN 60947-1 IEC 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	LROS (Lloyds register of shipping) DNV RINA RMRoS CB ABS BV CCC UL UKCA
Compatibility code	LC1F
Control circuit type	AC at 40400 Hz
Environment	
IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	тн
Ambient air temperature for operation	-555 °C
Ambient air temperature for storage	-6080 °C
J	
Permissible ambient air temperature around the device	-4070 °C
Permissible ambient air	-4070 °C 434 mm
Permissible ambient air temperature around the device	
Permissible ambient air temperature around the device	434 mm
Permissible ambient air temperature around the device Height Width	434 mm 702 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	38.0 cm
Package 1 Width	45.0 cm
Package 1 Length	94.0 cm
Package 1 Weight	50.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
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

Contractual warranty

Warranty 18 months