# Product datasheet Characteristics

## LC1D40008P7

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 <= 440 V 60 A 230 V AC 50/60 Hz coil





#### Main

IVIAIII		
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load	
Utilisation category	AC-1	:
Poles description	4P	
Power pole contact composition	2 NO + 2 NC	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	230 V AC 50/60 Hz	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	
[lth] conventional free air thermal current	60 A (at 60 °C) for power circuit	
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	t 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit	
Associated fuse rating	80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1	

Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V	
Power dissipation per pole	5.4 W AC-1	
Front cover	Without	
Mounting support	Plate Rail	
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	
Product certifications	BV DNV GL CSA LROS (Lloyds register of shipping) GOST CCC UL RINA	
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end 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 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible without cable end Power circuit: screw connection 2 cable(s) 125 mm²flexible with cable end Power circuit: screw connection 2 cable(s) 135 mm²flexible with cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible with cable end Power circuit: screw connection 1 cable(s) 135 mm²solid without cable end Power circuit: screw connection 2 cable(s) 135 mm²solid without cable end Power circuit: screw connection 2 cable(s) 125 mm²solid without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm² hexagonal screw head 4 mm	
Operating time	419 ms opening 1226 ms closing	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	6 Mcycles	
Maximum operating rate	3600 cyc/h 60 °C	

#### Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	45 W at 50/60 Hz	

#### Environment

IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
Operating altitude	03000 m	

Fire resistance	850 °C conforming to IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 10 Gn for 11 ms	
Height	127 mm	
Width	85 mm	
Depth	125 mm	
Net weight	1.44 kg	

### Packing Units

PCE
1
1.469 kg
11 cm
13.5 cm
15.5 cm
S02
5
7.644 kg
15 cm
30 cm
40 cm
S06
48
81.88 kg
73.5 cm
60 cm
80 cm

#### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
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

Warrantv	12 months	