

2908602

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Electronic machine management for operation with an external current transformer (90 A) - precise energy measurement and active power measurement of motors, machines, and other 3-phase loads. Freely configurable switching/signaling thresholds. Order cables separately.

Product description

Electronic machine management for operation with external current transformers (90 A) – Precise energy measurement, real power measurement, current and voltage measurement of motors, machines or other 3-phase loads. Freely parameterizable switching and signaling thresholds. As an option, can be networked with all common fieldbus systems via a gateway.

Commercial data

Item number	2908602
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C475
Product key	CK7521
Catalog page	Page 18 (C-5-2019)
GTIN	4055626311777
Weight per piece (including packing)	438.6 g
Weight per piece (excluding packing)	225.2 g
Customs tariff number	85371098
Country of origin	DE



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Technical data

Product properties

Product type	Electronic motor manager
Product family	CONTACTRON
Operating mode	100% operating factor

Electrical properties

Number of phases	3
Maximum power dissipation for nominal condition	2.5 W

Supply

Rated control circuit supply voltage U _S	24 V DC
Control supply voltage range	19.2 V DC 30 V DC
Rated control supply current I _S	< 33 mA

Insulation characteristics

modation characteristics	
Rated insulation voltage	500 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2

Input data

Digital inputs

Number of inputs	4 (IN1 - IN4)
Rated actuating voltage $U_{\mathbb{C}}$	24 V DC
Triggering voltage range	19.2 V DC 30 V DC
Rated actuating current I _C	3.3 mA
Switching threshold	9.6 V ("0" signal)
	19.2 V ("1" signal)

Supply for digital outputs

Nominal supply voltage	24 V DC
Nominal supply voltage range	19.2 V DC 30 V DC

Power measurement

Basic accuracy	typ. 0.25 % (Tu= 20 °C, U= 400 V, Cos Phi= 0,8)
Power range	138 W 62 kW (400 V AC)

Voltage measurement/star voltage

Basic accuracy	typ. 0.5 %
Voltage range	42 V AC 550 V AC

Current measurement

Basic accuracy	typ. 0.5 %
Current range	0.2 A 90 A



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Measuring via	External push-through current transformers connected upstrea
out data	
Output name	Acknowledging contacts O1-O4
Note	The meaning of the acknowledgement outputs can be freely parameterized, see user manual
Number of outputs	4
Nominal output voltage	24 V DC (semiconductor output)
Output voltage range	19.2 V DC 30 V DC
Continuous load current	500 mA
Residual voltage	< 100 mV
Protective circuit	Suppressor diode
Surge voltage protection	> 33 V DC
nection data	
ontrol circuits	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	26 12
Tightening torque	0.5 Nm 0.6 Nm (5-7 lbs-in)
ad circuit	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	26 12
Tightening torque	0.5 Nm 0.6 Nm (5-7 lbs-in)
gnal connection on electronic management module (EMM)	
Connection method	D-SUB pin strip
	1
Number of connections	
	9
Number of positions gnal connection on current transformer module	
Number of positions gnal connection on current transformer module Connection method	9 D-SUB socket strip
Number of connections	D-SUB socket strip
Number of positions gnal connection on current transformer module Connection method	D-SUB socket strip
Number of positions gnal connection on current transformer module Connection method Number of connections	D-SUB socket strip



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Operating voltage display	Green LED
Error indication	Red LED
Data communication display	green LED
nensions	
Width	22.5 mm
Width Current transformers	138 mm
Height	99 mm
Height Current transformers	45 mm
Depth	114.5 mm
Depth Current transformers	56 mm
Diameter	11 mm
Current transformers	
Designation	Ext 90 CT
Width	138 mm
Height	45 mm
Depth	56 mm
Primary round conductor (diameter)	11 mm
terial specifications	
Color	gray (RAL 7042)
vironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-25 °C 50 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
provals	
JKCA	
Certificate	UKCA-compliant

Standards and regulations

Standards/regulations	EN 60947-1
	EN 60947-4-2
	EN 61000-6-2
	EN 61000-6-3

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27370804	
	ECLASS-13.0	27370804	
	ECLASS-12.0	27370804	
ETIM			
	ETIM 9.0	EC002572	
UNSPSC			

39121100



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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