

Tehničke karakteristike proizvoda

Karakteristike

XPSMF3542

Preventa sigurnosni kompaktni PLC - Profibus
DP protokol



Osnovne informacije

Grupa proizvoda	Preventa Safety automatizacija
Tip proizvoda ili komponente	Preventa sigurnosni kompaktni PLC
Ime sigurnosnog modula	XPSMF35
Sigurnosni modul	Za mnogobrojne sigurnosne funkcije mašine i zaštitu osoblja
Kategorija sigurnosti	Category 4 conforming to EN 954-1/ISO 13849-1 SIL 3 conforming to IEC 61508
Tip strukture	10BASE-T/100BASE-TX, Modbus TCP/IP 10BASE-T/100BASE-TX, safe Ethernet

Dopunske informacije

Funkcija modula	Closed circuit scanning of input channels for analogue input circuit Measuring 0 to 20 mA currents using shunt for analogue input circuit Monitoring safety actuators for discrete output Nadzor sigurnosne detekcije za digitalni ulaz Nadzor sigurnosnog dijaloga za digitalni ulaz Monitoring safety dialogue for discrete output Single-pole measuring of 0 to 10 V voltages for analogue input circuit
[us] nazivni napon	24 V DC - 15...20 %
Struja bez opterećenja	0,75 A
Tip zaštite	Interno osiguračem
Sat	With, supplied by backup capacitor for 1 week following loss of supply
Vreme odziva	U zavisnosti od veličine aplikacije
Opis memorije	User logic 250 kB application User logic 250 kB data
Broj digitalnih ulaza	24 not isolated discrete input(s)
Naponsko stanje 0 garantovano	≤ 5 V za digitalni ulaz
Naponsko stanje 1 garantovano	24...30 V za digitalni ulaz
Garantovano stanje 0	1...1.5 mA (digitalni ulaz)
Garantovano stanje 1	3.5...4.5 mA (digitalni ulaz)
Napon digitalnog ulaza	20 V
Struja digitalnog ulaza	100 mA
Tip zaštite ulaza	Zaštita protiv kratkog spoja prema uzemljenju Zaštita protiv kratkog spoja
Zaštita ulaza od prenapona	500 V for discrete input conforming to IEC 61000-4-5 -4...15 V for analogue input circuit
Broj digitalnih izlaza	8
Napon digitalnog izlaza	24 V DC
Tolerancija izlaznog napona	+/- 2 %
Struja digitalnog izlaza	1 A at 60 °C (channels 4 and 8) 2 A at 50 °C (channels 4 and 8) 0.5 A at 60 °C (channels 1 to 3 and 5 to 7) ≤ 7 mA (all channels)
Minimalno opterećenje	2 mA per discrete output
Maksimalna struja curenja	1 mA, at 2 V at state 0 for discrete output
Zaštita od preopterećenja	Isključivanje izlaza zahvaćenih sa cikličnim ponovnim povezivanjem
Broj analognih ulaza	8

Tip analognog izlaza	Neizolovani
Spoljašnja otpornost	250 Ω za kolo analognog ulaza 500 Ω za kolo analognog ulaza
Opseg analognih ulaza	0...20 mA sa 500 Ω šant 0...10 V
Ograničenje napona ulaza	0.1...11.5 V analogue input circuit
Ograničenje struje ulaza	0.4...23 mA 500 Ohm analogue input circuit
Rezolucija analognog ulaza	12 bitova
Sigurnosna tačnost	+/- 2 % za kolo analognog ulaza
Maksimalni broj ulaza/izlaza	500 MOhm for signal source for analogue input circuit 1 KOhm for analogue input circuit 3.7 Ohm for counting inputs
Broj ulaza brojača	2
Tip ulaza brojača	Neizolovani
Frekvencija brojanja	100 kHz
Radni prag	0...0.05 V, 5 V low for counting inputs 13...33 V, 24 V high for counting inputs -3...5 V, 24 V low for counting inputs 4...6 V, 5 V high for counting inputs
Rezolucija ulaza brojača	24 bita
Du/dt	1 V/ μ s counting inputs
Protokol komunikacionog porta	Modbus TCP/IP with 4 RJ45 port(s), transmission rate: 100 Mbps, 10 Mbps, medium: dual twisted pair cable, category 5D or better Safe Ethernet with 4 RJ45 port(s), transmission rate: 100 Mbps, 10 Mbps, medium: dual twisted pair cable, category 5D or better Modbus RTU with 1 SUB-D 9-pin female port(s), RS485, medium: shielded dual twisted pair cable Profibus with 1 SUB-D 9-pin female port(s), RS485, medium: shielded dual twisted pair cable
Način razmene podataka	Half duplex, full duplex, autonegotiation Modbus TCP/IP Half duplex, full duplex, autonegotiation safe Ethernet
Način pristupa	Slave Modbus Slave Modbus TCP/IP Slave Profibus
Broj adresa	122 for Modbus
Koncept	Transparent Ready, Modbus TCP/IP
Veb server	Class A10, Modbus TCP/IP
Veb servisi	Modbus identification request, Modbus TCP/IP Modbus TCP/IP messaging (reading/writing of data words), Modbus TCP/IP Modbus TCP/IP server, Modbus TCP/IP Standard 502, Modbus TCP/IP
Udaljenost u radu	<= 500 m (between station) shielded dual twisted pair cable counting inputs <= 100 m (between station) discrete input <= 100 m (between station) discrete output <= 300 m (between station) analogue input circuit
Broj priključnih blokova	1 for counting inputs 1 for power supply 2 for discrete output 4 for analogue input circuit 5 for discrete input

Analogue input circuit: captive screw clamp terminals, 2 x 0.5 mm² (AWG 20) flexible with cable end
 Counting inputs: captive screw clamp terminals, 2 x 0.5 mm² (AWG 20) flexible with cable end
 Discrete input/output circuit: captive screw clamp terminals, 2 x 0.5 mm² (AWG 20) flexible with cable end
 Discrete input/output circuit: captive screw clamp terminals, 1 x 0.14...1 x 1.5 mm² (AWG 28...AWG 16) flexible without cable end
 Discrete input/output circuit: captive screw clamp terminals, 1 x 0.14...1 x 1.5 mm² (AWG 28...AWG 16) solid without cable end
 Power supply: captive screw clamp terminals, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 12) flexible without cable end
 Power supply: captive screw clamp terminals, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 12) solid without cable end
 Discrete input/output circuit: captive screw clamp terminals, 1 x 0.25...1 x 0.5 mm² (AWG 22...AWG 20) flexible with cable end
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 Discrete input/output circuit: captive screw clamp terminals, 2 x 0.14...2 x 0.5 mm² (AWG 28...AWG 20) solid without cable end
 Discrete input/output circuit: captive screw clamp terminals, 2 x 0.14...2 x 0.75 mm² (AWG 28...AWG 18) flexible without cable end
 Power supply: captive screw clamp terminals, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 12) flexible without cable end
 Power supply: captive screw clamp terminals, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 12) solid without cable end
 Discrete input/output circuit: captive screw clamp terminals, 2 x 0.25...2 x 0.34 mm² (AWG 22) flexible without cable end
 Power supply: captive screw clamp terminals, 2 x 0.25...2 x 1 mm² (AWG 22...AWG 18) flexible without cable end
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Moment pritezanja	0,22...0,25 N.m
Dužina ogoljenog dela žice	9 mm
Potrošnja struje	9 A at 24 V DC on power supply
Nosači za montažu	35 mm simetrična DIN šina
Dubina	66,5 mm
Visina	113 mm
Širina	253 mm
Masa proizvoda	1,2 kg

Okruženje

Standardi	IEC 61131 DIN V 19250 DIN V 0801 EN 50156 u postupku
Otpornost na mikroprekide	10 milisekundi
Ip stepen zaštite	IP20 (orman)
Temperatura okoline za rad	0...60 °C conforming to EN 61131-2
Temperatura okoline za skladištenje	-40...85 °C conforming to EN 61131-2
Relativna vlažnost	95 % supply not connected
Nadmorska visina za rad	< 2000 m
Stepen zaprljanosti	2
Klasa zaštite protiv električnog udara	Class II conforming to EN/IEC 61131-2
Elektromagnetna kompatibilnost	EN/IEC 61131-2
Otpornost na vibracije	1 gn conforming to EN 61131-2 (f = 10...150 Hz)
Otpornost na udare	15 gn for 11 ms conforming to EN 61131-2
Otpornost na elektrostatičko pražnjenje	4 kV contact conforming to EN/IEC 61000-4-2 8 kV on air conforming to EN/IEC 61000-4-2
Otpornost na elektromagnetna polja	10 V/m 26...1000 MHz conforming to EN/IEC 61000-4-3

Pakovanje

Tip jedinice pakovanja 1	PCE
Broj jedinica u pakovanju 1	1
Pakovanje 1 težina	1,915 kg
Pakovanje 1 visina	15,5 cm
Pakovanje 1 širina	19 cm
Pakovanje 1 dužina	29,5 cm
Pakovanje 2 težina	6,997 kg

Održivost ponude

EU RoHS direktiva	Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS) EU RoHS deklaracija
Bez žive	Da
Informacije o RoHS izuzecima	Da
RoHS regulativa za Kinu	RoHS Deklaracija Za Kinu
WEEE	Ovaj proizvod je na tržištima Evropske unije neophodno odložiti u skladu sa specifičnim smernicama za prikupljanje otpada i nikako ne sme da dospe u kontejnere za otpatke.

Ugovorna garancija

Garancija	18 meseci
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