

Active module - UM 45-16RM/MR-G24/1/PLC - 2962913

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VARIOFACE COMPACT LINE, output module with 16 miniature relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)

Why buy this product

- Low depth of just 45 mm
- Universal applications from 1 mA to 3 A continuous current thanks to 2-layer double contact with hard gold plating
- Freewheeling and polarity protection diode per signal path
- Universal applications from 1 mA to 3 A continuous current thanks to 2-layer double contact with hard gold plating
- Plug-in miniature relays each with an N/O contact



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 087517
GTIN	4017918087517

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	215 mm
Height	45 mm
Depth	50 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

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Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	6.5 mA
Typical response time	5 ms
Typical release time	15 ms
Type of protection	Free-wheeling diode
Protective circuit/component	Damping diode
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Contact type	1 N/O contact
Contact material	AgNi, 5 μ m hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	5 V
Limiting continuous current	3 A
Maximum inrush current	5 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	72 W (24 V DC)
	60 W (48 V DC)
	50 W (60 V DC)
	50 W (110 V DC)
	750 VA (250 V AC)

General

No. of channels	16
	32
Compatible components	Miniature relay, REL-MR-G 24/1
With components	yes
Mechanical service life	2×10^7 cycles
Operating mode	100% operating factor
Degree of protection	IP00
Mounting position	any
Assembly instructions	In rows with zero spacing
Color	green

Connection data for connection 1

Connection name	Controller level
Connection method	IDC/FLK pin strip

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Connection data for connection 1

Number of connections	1
Number of positions	50
Pitch	2.54 mm

Connection data for connection 2

Connection name	Field level
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 14
Number of connections	36
Number of positions	3

Connection data for connection 3

Connection name	Supply
Connection method	Screw connection
Stripping length	6 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 16
Number of connections	2
Number of positions	2

Connection data for connection 4

Connection name	Connection for basic module
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	20
Pitch	2.54 mm

Supported controller

Corresponding control	SIEMENS S7-400
Corresponding I/O card	6ES7 422-1BL00-0AA0
	6ES7 422-7BL00-0AB0
Corresponding control	ALLEN-BRADLEY ControlLogix
Corresponding I/O card	1756-OB32
Corresponding control	ALLEN-BRADLEY PLC 5
Corresponding I/O card	1771 OBN
Corresponding control	HONEYWELL Experion PKS C200
Corresponding I/O card	TC-ODD 321

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Supported controller

Corresponding control	MITSUBISHI MELSEC L
Corresponding I/O card	LY41PT1P
	LY42PT1P
Corresponding control	MITSUBISHI MELSEC Q
Corresponding I/O card	QY81P
	QY82P
Corresponding control	Schneider Electric Modicon TSX QUANTUM
Corresponding I/O card	DDO 353
Corresponding control	SIEMENS S7-300 / ET 200 M
Corresponding I/O card	6ES7 322-1BL00-0AA0
Corresponding control	GE-FANUC RX3i
Corresponding I/O card	IC694MDL754

Standards and Regulations

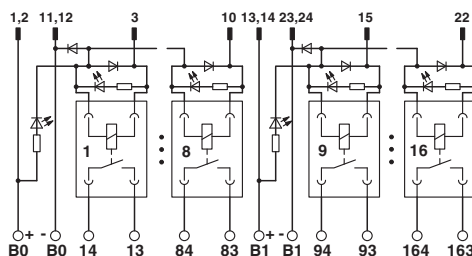
Standards/regulations	DIN EN 50178
	IEC 60664
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV (basic insulation)
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Approvals

Approvals

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Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B.01742
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