

# DMR SERVO DRIVES

DMR 76-10/65 HP is a digital drive for motorollers in cross belt applications. Main features of this drive are current digital control achieved with the technique of vector space and updated with a 10 kHz frequency. Speed digital loop with proportional-integral compensator updated with 10 kHz frequency. Position digital loop with proportional compensator and handling of dead zone updated with 10 kHz frequency. Digital Profibus interface for connecting to supervisor PLC. Motor feedback interface via Hall sensors.

## DMR 76-10/65 FEATURES

- > THE PERFECT MATCHED DRIVE FOR GEARLESS MOTOROLLER
- > DMR BROWSER SOFTWARE INTERFACE
- MTR76
- > FUSE PROTECTION
- > USB PROGRAMMING INTERFACE
- > CROSSBELT FUNCTIONALITY
- > PROFIBUS FIELBUS DP V1
- > SPEED AND ACCELERATION PROGRAMMABILITY
- > I/O PROGRAMMABILITY
- > HALL SENSOR AND ENCODER FEEDBACK
- > I/O PROXY DUAL LOOP
- > 2 INPUT, 2 OUTPUT RELAY



## DMR 76-10/65 PRODUCT DATA

FEATURE	UNITS	DMR 76-10/65
Rated output power	W	650
Efficiency at rated power	%	>95
Operating supply voltage	Vdc	24-80
Typical supply voltage	Vdc	48-65
Maximum operating voltage	Vdc	85
Auxiliary supply voltage		-
Rated output current	Arms	10
Peak output current	Arms	50
Peak time	s	0,75 on 20s
PWM switching frequency	kHz	16 kHz
Maximum output frequency	Hz	<600
Commutation		Sinusoidal and space vector
Dimensions	WxDxH mm	250x150x45
Working temperature	°C	-20 ÷ +55
Storage temperature	°C	-40 ÷ +75
Humidity	%	85% not condensing
Altitude without derating	m	1000
IP protection	IP	54 on drive front 40 on the whole drive

SEE IT BEFORE IT HAPPENS

# DMR 76-10/65

## DMR 76-10/65 PRODUCT DATA

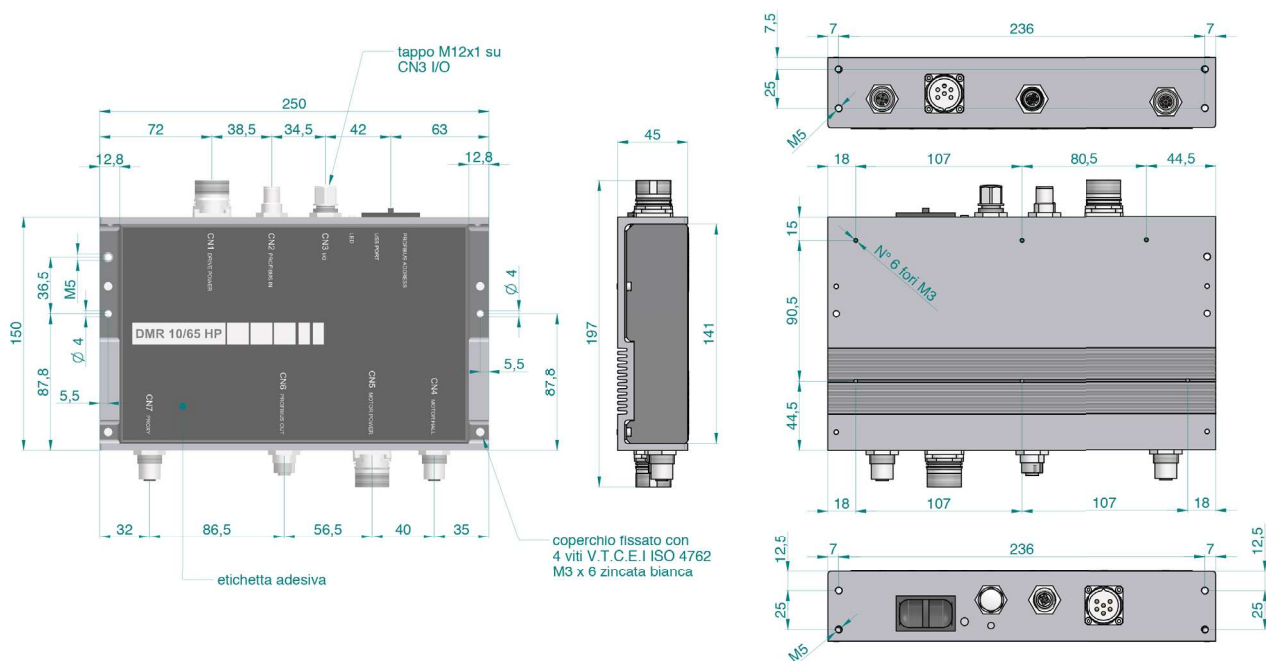
### HARDWARE AND FIRMWARE CHARACTERISTICS

- ONE ELECTRONIC BOARD FOR CONTROL LOGIC AND POWER
- ONE SUPPLY FOR ELECTRONIC CONTROL AND MOTOR OUTPUT STAGE
- PROFIBUS SLAVE COMMAND INTERFACE WITH DIP SWITCH NODE ADDRESS SELECTION
- USB DEVICE INTERFACE FOR CONFIGURATION AND MAINTENANCE
- CONTROL THROUGH SINUSOIDAL ALGORITHM AND HALL SENSOR FEEDBACK
- GENERIC I/O PROGRAMMABILITY
- I/O PROXI PROGRAMMABILITY

### INTERFACE

- THIS DRIVE IS EQUIPPED WITH SOFTWARE USER INTERFACE "DMR BROWSER" FOR OPERATING, MONITORING AND SUPERVISION OF THE APPLICATION. REFER TO THE APPROPRIATE MANUAL FOR INSTALLATION INSTRUCTIONS AND USE.

## PRODUCT DIMENSIONS



SEE IT BEFORE IT HAPPENS

**MOTOR  
POWER**  
COMPANY

# DMR 76-10/65

## CONNECTION

<b>DRIVE POWER</b>	
PIN	NAME
1	V+
2	-
3	-
4	-
5	V-
6	-

<b>PROFIBUS IN</b>	
PIN	NAME
1	-
2	DATA-/A-LINE
3	-
4	-
5	DATA+/B-LINE

<b>PROFIBUS OUT</b>	
PIN	NAME
1	V+
2	DATA-/A-LINE
3	V <sub>REF</sub>
4	DATA+/B-LINE
5	-

<b>DIGITAL I/O</b>	
PIN	NAME
1	OUT1 COM
2	INRET 123
3	+24V <sub>DC</sub>
4	OUT1 NC
5	IN1
6	IN2
7	IN3
8	GND (+24 V <sub>DC</sub> )

## CONNECTION

<b>MOTOR OUTPUT</b>	
PIN	NAME
1	-
2	U
3	V
4	W
5	-
6	PE

<b>FEEDBACK</b>	
PIN	NAME
1	U/A
2	V/B
3	W/Z
4	5V <sub>DC</sub>
5	GND

<b>PROXY DUAL LOOP</b>	
PIN	NAME
1	+24V <sub>DC</sub> PROXY
2	INRET 123 PROXY
3	GND (+24V <sub>DC</sub> )
4	OUT2 NO
5	OUT2 NO
6	IN7 PROXY
7	+24 V <sub>DC</sub>
8	OUT2 COM