DDMP Digital Diagnostic Motor Protection





Necessary innovation

The management of electrical utilities by PLC improved the quality of service continuity thanks to the prompt replacement of an utility with its own backup system. The technician in charge of maintenance periodically checks the system and must work on the basic program to make functional tests on the system that is out of work.

Current starting devices (soft starters) and regulation devices (inverters) keep anomalies in memory which caused the shutdown of the system, electromechanical and electronic thermal relays do not report and do not memorize the causes of the shutdown.

The result is the urgency to protect each motor with more complex device that can memorize the electrical causes of the fault, easy to use and with compatible dimensions.

The DDMP distinguishes and stores the shutdown causes and guides the maintenance technician to a correct and quick solution in order to re-establish the working conditions of the system, also it allows a better programming of subsequent checks of the part of the system affected by the failure. User overload, damage to the motor windings, abnormal connections resistances, irregularities in the power supply network can be identified and shown by the LEDs of DDMP.

Product overview

- Thermal overload protection with 4 trip class
- Manual / remote / automatic reset
- Compact dimensions with pass-thru CT
- Complete line for currents from 0.75 to 1500A.
- -1000V 50/60Hz AC rated voltage
- Visual indicators of intervention
- Thermistor overtemperature protection (up to 6 PTC sensors in series)
- Phase loss and asymmetry protection
- Easy wiring and DIN rail mounting

Tecnichal features

Exercise Annual Part	ircuit		
ated voltage Ue	V AC	1000	
ated insulation voltage Ui	VAC	1000	
DMP-34 minimum and maximum current value settable	A	3,34,5	
DMP-65 minimum and maximum current value settable	A	33.565	
DMP-320 minimum and maximum current value settable	A	66320	
DMP-900 minimum and maximum current value settable	A	186900	
DMP-1500 minimum and maximum current value settable	A	3101500	
onnections DDMP 34 & 65	mm2	Cable up to 16 (pass - thru)	
onnections DDMP 320	mm2	Cable up to 50 (pass - thru) links included from 50 to 185	
onnections DDMP 900	mm2	Cable 2x70240	
ripp class		5-10-20-30	
onsumption	VA	2	
Control	circuit		
eset type	Manual / automatic / remote		
est function	yes		
upply voltage	24V DC / 24V	AC / 110-120V AC / 230-240V AC	
Trip and alarm contacts -95-96 (N	I/C), 97-98 (N/O), 9	7-98B (N/C)	
ated voltage	V AC	400	
lax thermal current	A	7	
ated current 24V AC	A	5	
ated current 230-240V AC	A	2	
ated current 380-415V AC	A	1	
lax protection fuse (gG)	A	10	
onnections cross section	mm2	0,5 to 2,5	
Phase loss and phas	e imbalance protec	ction	
nbalance of current	Limit	> 40% for 30 sec	
hase loss	Limit	1fase < 20% for 3 sec	
PTCpr	otection		
lax number of PTC sensor in series	#	6	
Charles	d compliance		
Standar	d compliance		
IEC 60947-4-1	RINA		





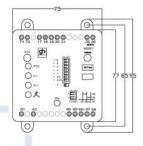
Contactor + DDMP Ghisalba coordination

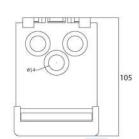


DDMP	Setting range (A)	Contactor	AC-3 le Ue ≤ 440V 50/60Hz (A)
DDMP-34	3 - 34,5	GH15BN	9
		GH15CN	12
		GH15DN	16
		GH15EN	23
		GH15ET	25
		GH15FT	32
DDMP- 65	33,5 - 65	GH15GS	40
		GH15HT	50
		GH15JT	63
DDMP- 320	66 - 320	GH15KT	80
		GH15LT	95
		GH15MT	110
		GH15NT	150
		GH15PT	175
		GH15RT	210
		GH15ST	260
		GH15TT	315
		GH15UT	400
	186 - 900	GH55/B	450
DD44D 000		GH57/B	550
DDMP- 900		GH62/B	700
		GH64	860
DDMD 4506	310 - 1500	GH76	1000
DDMP- 1500		GH78	1200

Dimensions

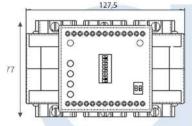
DDMP-34 (3-34.5A) & DDMP-65 (33.5-65)



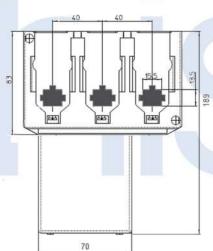


72

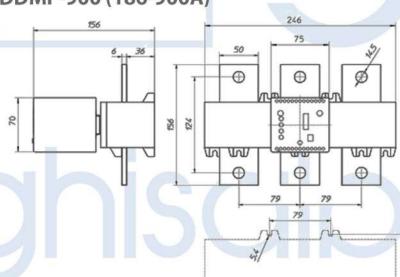
DDMP-320 (66-320A)



220



DDMP-900 (186-900A)



VIA TEVERE 15 - 10098 CASCINE VICA RIVOLI - TORINO - ITALY TEL. + 39 011 95991 - FAX + 39 011 9597064 www.ghisalba.com - e -mail: info@ghisalba.com