

Ficha Técnica WDH-31-530



FUNCTION

Measurement function	Three-phase current	☒
	Current unbalance	☒
	Thermal capacity	☒
	Residual current (grounding) 0.3le~8.0le	☒
	Residual current (leakage) 50mA~5000mA	☒
	Three-phase voltage	☒
	Positive & negative sequence current	☒
	Power and energy	☒
Real-time clock	Year, month, day, hour, minute, second	☒
Digital input	Dry contact (built-in DC 24V)	5 channels
Relay output	Control relay	3 channels
	Signal relay	1 channels
Analog output	1 channel of DC 4-20mA analog output, parameter programmable	☒
Maintenance information	Alarm information/fault record	☒
	Start/stop record, switch status changing record	☒
	Operation times, total operation time and total shutdown time	☒
Display mode	LED display (operate/fault indicate)	☒
	LCD display (operation status, fault information, parameter setting, etc)	☒
Installation mode	Controller main body	Mounted on 35mm DIN-rail
	Display module	Panel mounting, (92*55)mm
Communication function (Select any one)	1 (1 Modbus-RTU/ Display integration)	☐
	2 (1 Profibus-DP+1 Modbus-RTU)	☐
	3 (1 Modbus-RTU)	☐
	4 (2 Modbus-RTU)	☐
	7 (1 Modbus-RTU/1 Modbus-TCP/IP)	☐
	9 (1 Modbus-RTU/1 Profinet)	☐

NOTE: *☒: Yes ☐: Optional

Protection function	Overload inverse time protection	■
	Start acceleration timeout protection	■
	Locked rotor (starting overcurrent) protection	■
	Blocking (operation overcurrent) protection	■
	Leakage protection	■
	Voltage/current unbalance/phase failure protection	■
	Underload/undercurrent protection	■
	Overvoltage protection	■
	Undervoltage protection	■
	Phase sequence protection	■
	PT disconnection protection	■
	Residual current (grounding) (0.3~8.0) le protection mode	■
	Residual current (leakage)(50~5000)mA	■
	External fault protection (process interlocking)	■
	tE time protection (increased safety motor)	□
Control protection	Protection mode	■
	Direct start	■
	Bi-directional start	■
	Double speed start	■
	Y/ △start	■
	Resistor divider start	■
	Autotransformer start	■
	Start with soft-starter	■
	Start with inverter	■
	Anti voltage sag(low voltage restart)	□
	Power-on automatic start	■

FUNCTION

System operating parameter	Motor rated voltage	AC400V, 50Hz
	Motor rated current	0.1A~800A
	Insulation resistance	> 100M Ω
Controller auxiliary power	Working range	AC/DC 80V~270V
Ambient condition	Operating temperature	-20℃~60℃
	Relative humidity	≤93%RH
	Protection degree (Panel)	IP64
	Notice	No explosive medium, metal corroding and conducting medium at site
Protection action accuracy	Current/voltage start value	±2% of the set value
	Accumulated value of thermal capacity	±1% of the set value
Action delayed time	Action delayed time set value < 2s	±100ms
	Action delayed time set value ≥ 2s	±5%
Relay output	Control relay output contact capacity	AC250V/5A
	Signal relay output contact capacity	AC250V/3A, DC30V/3A
	Service time of relay output	100000 times
EMC	Electrostatic discharge test	Severe degree: Class III
	Electrical fast transient burst immunity test (EF)	Severe degree: Class III
	Surge	Severe degree: Class III
	Oscillatory waves immunity	Severe degree: Class III
	Radiated radio-frequency electrom agnetic field immunity (RF-EMS)	Severe degree: Class III
	Radio frequency radiation immunity	Severe degree: Class III
	Power frequency immunity	Severe degree: Class A
	CE limit test	150kHz~30MHz
	Conducted emission limit test	30MHz~1000MHz
Withstand voltage	Between power supply and input	AC2kV/1 min
	Between power supply and output	AC2kV/1 min
	Between input and output	AC1kV/1 min

NOTE: ■: Yes □: Optional