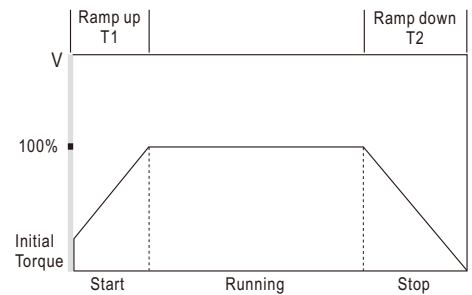


FEATURES

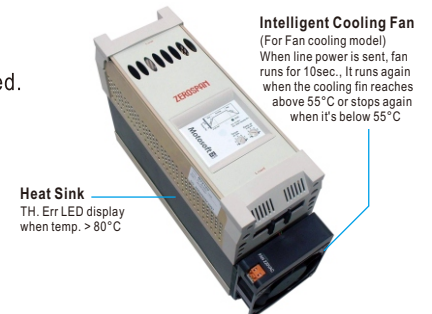
- 6 Thyristor 3phase fully wave control, with excellent start, stop (which is better than traditional 2-phases motor control).
- With strong capacity of heat radiation, extra long life, no need to add By Pass electromagnetic contactor.
- Computerized digital control with high accuracy, multi-function, easy to adjust operation and with protection of short phase, over heating.
- Electronic type without contact point, noise and with semi-permanent life.
- With small volume, easy for wiring, it just connect with motor by 3 conduct wires only.
- To replace Y- Δ electromagnetic switch, self-coupled transformer, electric resistor, etc. Traditional control and with more value itself.

Character Curve



Application

- ◆ When start, it is necessary to limit power voltage reduce scale or for reduce surge current.
- ◆ For limit start torque, to protect loading of driven machine.
- ◆ It is necessary to accelerate or decelerate, to prevent driven goods fall off or tilted condition happened.
- ◆ To soft start for high inertia loading.
- ◆ For motor and equipment need precise protection.
- ◆ For other all of machines, equipments need smooth start, stop function, but no need to do speed control.
- ◆ Such as: pump, blower, conveyor, extruder, crusher, centrifuge, chiller, air compressor, etc.
- ◆ If use for water pump, this unit can successfully to prevent prompt impact of water pressure and water hammer when stop motion.



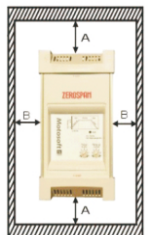
HOW TO ORDER

①	Model Code	N1-	Protection (①+②)				① SCR over-heat protection ② Phase shortage protection ③ With locking for forward/reverse running ④ Start failure detection ⑤ Motor over-load protection	⑥ Motor under-load protection ⑦ Current unbalance detection ⑧ Self-detection for open circuit or current Sensitive circuit broken ⑨ Thyristor-short detection		
		N2-	Protection (①+②+③)							
		N3-	Protection (①+②+③+④+⑤+⑥+⑦+⑧+⑨)							
		N4-	Protection (①+②+③+④+⑤+⑥+⑦+⑧+⑨)							
②	Main Power Supply Voltage	2	220V± 15%			50/60Hz Auto detect				
		3	380V± 15%							
		4	440V± 15%							
③	Aux. Power Supply	1	AC 110V± 10% (60mA + FAN 250mA)				47 ~ 63Hz	☉ Please confirm the voltage of auxiliary power supply for (110V or 220VAC)		
		2	AC 220V± 10% (30mA + FAN 125mA)							
④	Rated Current		Code	Current	Dimension (L*W*H)		Weight (KG)	Terminal Screw for Main Circuit 	Cooling Type	
➤ The specification selection should be consider with following factors: ☉ Motor display rated ampere should be multiplied by 1.15 times of safety coefficient. ☉ It need to use more upper grade model during motor with more longer start time or with too many start frequency. ☉ Running around temperature: -10℃ ~ 60℃ (within 40~60℃, rated current will be reduced 1.2% as per 1℃ added each). ☉ Running altitude: 100meters (if altitude upper than 1000 meters, rated current will be reduced 1.2% as per 100 meters added each).			017	17A	195	120	125	2.3	M6	Natural cooling
			027	27A	195	120	168	3.4	M6	
			038	38A	195	120	223	5.2	M6	
			050	50A	217	120	223	5.8	M6	
			068	68A	240	120	223	6.2	M6	Forced cooled by Fan x 1
			090	90A	316	120	243	7.6	M8	
			120	120A	370	120	243	9.4	M8	
			180	180A	436	120	243	12.0	M10	Forced cooled by Fan x 2
			240	240A	316	240	243	16.0	M10	
			320	320A	370	240	243	19.0	M10	
			430	430A	370	360	243	28.0	M10	By Fan x 3
			660	660A	436	360	243	36.0	M10x2	

✗ Actual motor current will be changed depends on voltage, Loading, Frequency, Power Factoretc.

Circumstance condition for installation

	A (mm)	B(mm)
17~27A	60	20
36~68A	90	30
90~120A	120	40
180~240A	150	50
320~660A	240	80



1. It need to install vertically, to let air circulate across. And, keep at least with the following min. Distance.
2. To avoid air drawing, ventilation of cooling fan blocked by an goods such as wire trough, wiring brass connector, ...etc.
3. When the Motosoft-N running, it will produce heat and radiate from heat sink plate, please keep enough ventilate holes at upper & lower control panel or to add a extra exhaust fan upper control panel for exhaust air and keep ventilate hole lower control panel, to let cold air flow in.
4. To avoid it surrounded by steam or acid, alkaline, corrosive air status. (It is necessary to isolate the Motosoft-N unit completely from such status by control box or control room.

Rated Amperage (A) VS Motor horse power (HP)									
Current	AC 220V		AC 380V		AC 415V		AC 440V		
17A	5HP	3.7KW	7.5HP	5.5KW	7.5HP	5.5KW	10HP	7.5KW	
27A	7.5HP	5.5KW	15HP	11KW	15HP	11KW	15HP	11KW	
38A	12HP	9KW	20HP	15KW	20HP	15KW	25HP	18.5KW	
50A	15HP	11KW	25HP	18.5KW	25HP	22KW	30HP	22KW	
68A	20HP	15KW	40HP	30KW	40HP	30KW	40HP	30KW	
90A	30HP	22KW	50HP	37KW	60HP	45KW	60HP	45KW	
120A	40HP	30KW	75HP	55KW	75HP	55KW	75HP	55KW	
180A	60HP	45KW	125HP	90KW	125HP	90KW	125HP	90KW	
240A	75HP	55KW	150HP	110KW	150HP	110KW	175HP	132KW	
320A	125HP	90KW	200HP	150KW	200HP	150KW	200HP	150KW	
430A	150HP	110KW	250HP	200KW	250HP	200KW	300HP	220KW	
660A	250HP	188KW	400HP	300KW	450HP	335KW	450HP	335KW	