PRODUCTS FOR AGRI SECTOR





Minilec offers a range of products for protection of water pumps used by farmers. These are primarily to monitor incoming 3-phase supply for Single Phasing, Reverse Phasing and unbalanced supply and stop the pump in case of any fault. Additional features in some models include auto restarting. The products are specifically produced for marketing and use in India only.

MODELS

VSP2, VSP3, Autoswitch-2, Autoswitch-4, Autoswitch-5, Autoswitch-6, F3 PGA1



FEATURES

- Monitor incoming 3-phase supply
- Models with pre-wired connections
- Easy to fit inside most motor starters
- Switch for Auto-Manual operations
- Switch provision either built-in or external
- Adjustable on time delay
- All protections in auto & manual modes
- Built-in timer for star-delta operation

PROTECTIONS / FUNCTIONS

- Single Phasing
- Reverse Phasing
- Unbalanced supply
- Dry running
- On Delay to avoid immediate restarting of pumps during auto mode

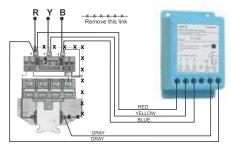
Ordering Instructions

- ✓ Product Family Name
- ✓ Model Name
- ✓ System Supply Voltage
- Aux. Supply / Control supply voltage
- ✓ Motor rating (HP / KW)
- Motor applications

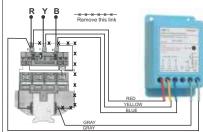
PRODUCTS FOR AGRISECTOR

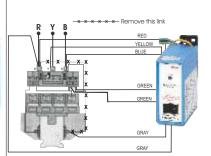
VSP2 VSP3 Auto switch - 2 Smallest size of single Single phasing, reverse Single phasing, reverse phasing, phasing preventor unbalanced supply phasing, unbalanced supply Single phasing, reverse Auto reset, 1 NO output contact Auto reset, 1 NO output contact On time delay 1/3/5 Minutes (Fixed) Auto-Manual switch phasing, unbalanced supply Suitable for any HP/kW rating Auto reset, 1 NO output monoblock pumps contact Suitable for any Pre-wired terminals for easy built-in on front. Suitable for any HP/kW rating pumps. Pre-HP/kW rating monoblock connections wired terminals for easy pumps connections 415 VAC \pm 20%, 50 Hz \pm 3% $200 - 450, 50 \text{ Hz} \pm 3\%$ **Supply Voltage** 415V AC \pm 20%, 50 Hz \pm 3% **Output Relay Contact** 1 NO Output Contact Rating Unbalance Trip Setting 5 Amp, 240 VAC (RESISTIVE) 5 Amp, 240 VAC (RESISTIVE) 5 Amp, 240 VAC (RESISTIVE) $50 \text{ V} \pm 10 \text{ VAC}$ 40 V ±6 V 50 V ± 10 VAC Trip Time Delay For unbalance 3.5 sec. ±1.5 sec. 3.5 sec. ±1.5 sec. 4 sec ± 2 sec **Dry Run Setting** N.A. N.A. N.A. 1 / 3 / 5 min On Time Delay NΑ NA Star-Delta Changeover Time Delay N.A. N.A. N.A. Auto Reset Auto Reset Resetting Auto Reset Auto Switch N. A. N. A. Present Enclosure Dimensions (mm) HIP moulded Housing: HIP / Mounting Clamp: Nylon 6 HIP moulded, with Nylon connector strip Overall (H x W x D) 103 x 66 x 43 103 x 66 x 43 102 X 35 X 81 mm 90 mm Centre to Centre 91 x 48 91 x 48 Mounting Panel Mounting Panel Mounting Panel Mounting 260gms 250gms 300gms Weight Level sensor Quantity Dimensions
Operating Conditions Temperature -5 °C TO + 60 °C -5 °C TO + 60 °C -5 °C TO + 60 °C

Upto 95% Rh



Upto 95% Rh





Upto 95% Rh

PRODUCTS FOR AGRISECTOR

minilec

Auto switch - 4

Auto switch - 5

Auto switch - 6

F3 PGA1



Single phasing, reverse phasing, unbalanced supply Auto reset, 1 NO output contact On time delay 1 to 10 Minutes (Adjustable) Auto-Manual switch built-in on front. Suitable for any HP/kW rating pumps. Pre-wired terminals for easy connections

で・参照機	

Single phasing, reverse phasing, unbalanced supply Auto reset, 1 NO output contact, On time delay 1 to 10 Minutes (Adjustable), Provision for connecting Auto-Manual switch externally, Suitable for any HP/kW rating pumps, Pre-wired terminals for easy connections



Single phasing, reverse phasing, unbalanced supply, Auto reset, 1 NO + 1 NO output contact, On time delay 2 to 3 Minutes (fixed), Star Delta Changeover Timer, fr te



Autoswitch with dry run protection. Auto reset for phase failure faults & manual reset for dry run. Auto/Manual switch. 1 CO output contact. 20 Amps. inbuilt CT, Indications Relay ON Green, Dry run Red, Pre-wired terminals for easy connections

200 - 450, 50 Hz ± 3%
1 NO
5 Amp, 240 VAC (RESISTIVE)
50 V ± 10 VAC

	4 sec ± 2 sec
	N.A.
	1 to 10 min
	N.A.
	Auto Reset
	Present
=	

Auto Reset
Present
Housing: HIP / Mounting Clamp: Nylon 6
102 X 35 X 81 mm
90 mm Centre to Centre
Panel Mounting
300gms

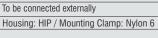
_	
_	
-5 °C TO + 60 °C	
Upto 95% Rh	

200 - 450,	50	Hz	±	3%
1 NO				

1 N	۷0				
5 /	۹mp,	240	VAC	(RESIS	TIVE)
50	V +	10 \	/ΔC		

4	Sec	±	2	Sec	
N	Δ				

N. Au





-5 °C TO + 60 °C
Upto 95% Rh

70 400, 00 Hz = 070
NO
Amp, 240 VAC (RESISTIVE)
) V ± 10 VAC

to 10 min
Α.
ito Reset
be connected externally

02 X 35 X 81 mm
00 mm Centre to Centre
Panel Mounting

5 °C TO	+ 60 °C
1 1 0 5 0 /	Di

NO
Amp, 240 VAC (RESISTIVE)
0 V ± 10 VAC
0 0.0

Sec ± 2 Sec	
Α.	
o 10 min	

eset	
onnected externally	
LUD / Marriella a Olamani Niciana C	i



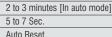


•	~		•	~~	•
Upt	0 5	95%	Rh	1	

Auto-Manual switch built-in o front, Suitable for any HP/kW rating pumps, Pre-wired terminals for easy connection
200 - 450, 50 Hz ± 3%
1 NO + 1 NO

5 Amp, 240 VAC (RESISTIVE) $50V \pm 10V$

3.5 Sec	±	1.5 Sec	
N.A.			



Tidlo Hoodi
Present
Housing: HIP / Mounting Clamp: Nylon 6



300gms	(Approx.)
_	

-5 °C TO	+ 60 °C
Unto 95%	Rh

200 - 450, 50 Hz ± 3%
1 CO
5 Amp, 240 VAC (RESISTIVE)
50 V ± 10 V

4 Sec ± 2 Sec
50% (±10%) of set current
1 Min (In Auto mode)

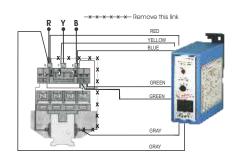
1 Will (III Auto Illoue)	
N.A.	
Auto for SP/UB/RP & Manu	al Reset for Dry run

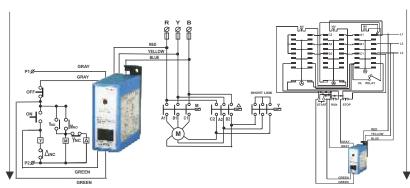
Present (D2-03) ABS

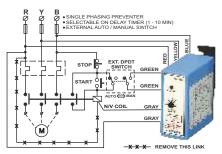
76 x 56.5 x 117.5	5
67 x 46	
Flush Mounting	

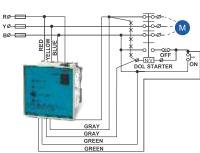
350gms	

-5 °C TO + 60 °	(
Unto 05% Ph	Ī









* * * * Remove this Link