



## Features

- Cylindrical - Normal Duty + Premium MPP Capacitor.
- Metallized polypropylene (MPP) film design.
- Compact cylindrical aluminum can design.
- Biodegradable resin impregnation gives cooling effect.
- Better heat dissipation.
- Explosion proof design (over pressure disconnecter)
- Low losses due to advanced winding and zinc spray equipments.

## Application

- Fixed P.F. correction.
- Automatic P.F. correction.
- Harmonic filter system.



Technical Data	ND-VAR Normal Duty	ND-VAR Normal Duty+
STANDARDS	IS 13340-1/2, IEC 60831-1/2	IS 13340-1/2, IEC 60831-1/2
RATED VOLTAGE (U <sub>N</sub> )	440 VOLT	440 VOLT
RATED FREQUENCY	50 Hz	50 Hz
OVER VOLTAGE	U <sub>N</sub> + 10% 12 hours in every 24 h U <sub>N</sub> + 15% 30 min. in every 24 h U <sub>N</sub> + 20% 5 min. in every 24 h U <sub>N</sub> + 30% 1 min. in every 24 h	U <sub>N</sub> + 10% 12 hours in every 24 h U <sub>N</sub> + 15% 30 min. in every 24 h U <sub>N</sub> + 20% 5 min. in every 24 h U <sub>N</sub> + 30% 1 min. in every 24 h
OVER CURRENT	1.3* I <sub>N</sub>	1.5* I <sub>N</sub>
CAPACITANCE TOLERANCE	-5 to + 10% As per standards	-5 to + 10% As per standards
TEST VOLTAGE, TERMINAL	2.15 * U <sub>N</sub> , AC 2S	2.15 * U <sub>N</sub> , AC 2S
TEST VOLTAGE, TERMINAL & CASE	3.6 kV, AC 2S	3.6 kV, AC 2S
INRUSH CURRENT	Up to 200 I <sub>N</sub>	Up to 250 I <sub>N</sub>
LOSSES	<0.20 W/kVAr (Dielectric), <0.5 W/kVAr (Total)	<0.20 W/kVAr (Dielectric), <0.5 W/kVAr (Total)
CASING	Cylindrical Aluminium Can	Cylindrical Aluminium Can
ENCLOSURE	IP00	IP00
MEAN LIFE EXPECTANCY	1,00,000 h	1,50,000 h
TEMPERATURE CLASS	-10/55°C	-25/55°C
COOLING	Natural air cooled Casing Temp. max 60°C permitted on top of the can	Natural air cooled Casing Temp. max 60°C permitted on top of the can
DIELECTRIC SYSTEM	Metallized polypropylene film, Self-healing property	Metallized polypropylene film, Self-healing property
IMPREGNATION	NPCB, Biodegradable natural semi soft resin.	NPCB, Biodegradable natural semi soft resin.
SAFETY FEATURES	Overpressure sensitive 3 phase disconnecter	Overpressure sensitive 3 phase disconnecter
ALTITUDE	Max. 2000 Meter above sea level	Max. 2000 Meter above sea level
RELATIVE HUMIDITY	Max. 95%	Max. 95%
MOUNTING POSITION	Vertical	Vertical
MOUNTING & EARTHING	M8x10mm, M12x16mm threaded stud, on bottom of case with Nut & Washer	M8x10mm, M12x16mm threaded stud, on bottom of case with Nut & Washer
DISCHARGE RESISTORS	External 3 minutes , 75 V	External 3 minutes , 75 V
TERMINALS	i) ND-VAR AW cap - Clip on terminals ii) ND-VAR - With MS screw on single three-way terminals	i) ND-VAR AW cap - Clip on terminals ii) ND-VAR - With MS screw on single three-way terminals

Note : U<sub>N</sub> - RMS Voltage at fundamental frequency without harmonics.

I<sub>N</sub> - Rated RMS current (line) at rated voltage and frequency without transients.



**ND-VAR Cylindrical - Normal Duty MPP Capacitor**

Normal Duty - 440 Volts - 50 Hz - 3ph - Delta Connection					
Product Code	Output kVAr	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions D*H (in mm)	Drawing No.
MC-N050-R0440-S1R3	5.0	3*27.42	6.56	65*150	C-2
MC-N075-R0440-S1R3	7.5	3*41.12	9.84	65*195	C-2
MC-N100-R0440-S1R3	10.0	3*54.83	13.12	75*196	C-3
MC-N125-R0440-S1R3	12.5	3*68.54	16.40	90*203	C-3
MC-N150-R0440-S1R3	15.0	3*82.25	19.68	90*203	C-3
MC-N200-R0440-S1R3	20.0	3*109.67	26.24	90*243	C-3
MC-N250-R0440-S1R3	25.0	3*137.08	32.80	90*283	C-3

**ND-VAR Cylindrical - Normal Duty+ - Premium MPP Capacitor**

Agrowire Series - Normal Duty + – Premium - 440 Volts - 50 Hz - 3 Ph – Delta Connection					
Product Code	Output kVAr	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions D*H (in mm)	Drawing No.
AW-P010-R0440-S1R3	1.0	3*5.48	1.31	50*125	C-1
AW-P020-R0440-S1R3	2.0	3*10.97	2.62	50*125	C-1
AW-P030-R0440-S1R3	3.0	3*16.45	3.93	65*130	C-2
AW-P040-R0440-S1R3	4.0	3*21.93	5.24	65*130	C-2

Normal Duty + – Premium - 440 Volts - 50 Hz - 3 Ph – Delta Connection					
Product Code	Output kVAr	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions D*H (in mm)	Drawing No.
MC-P050-R0440-S1R3	5.0	3*27.42	6.56	75*196	C-3
MC-P075-R0440-S1R3	7.5	3*41.12	9.84	75*196	C-3
MC-P100-R0440-S1R3	10.0	3*54.83	13.12	90*203	C-3
MC-P125-R0440-S1R3	12.5	3*68.54	16.40	90*203	C-3
MC-P150-R0440-S1R3	15.0	3*82.25	19.68	90*243	C-3
MC-P200-R0440-S1R3	20.0	3*109.67	26.24	116*243	C-4
MC-P250-R0440-S1R3	25.0	3*137.08	32.80	116*243	C-4



# Dimension - Reference Drawings

