HD-VAR



Features :

- Metallized polypropylene (MPP) film design.
- Compact cylindrical aluminum can design.
- Biodegradable resin/Oil impregnation gives cooling effect.
- Better heat dissipation.
- Explosion proof design (over pressure disconnector)
- Low losses due to advanced winding and zinc spray equipments.
- Finger touch proof terminal connectors.



Applications :

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

Technical Data :

STANDARDS	IS 13340-1/2, IEC 60831-1/2
RATED VOLTAGE (U_N)	400... 525 VOLT
RATED FREQUENCY	50/60 Hz
OVER VOLTAGE	U_N + 10% hours in every 24 h U_N + 15% 30 min. in every 24 h U_N + 20% 5 min. in every 24 h U_N + 30% 1 min in every 24 h
OVER CURRENT	2.2* I_N
CAPACITANCE TOLERANCE	-5 to +10% As per standards
TEST VOLTAGE, TERMINAL	2.15 * U_N, AC 2S
TEST VOLTAGE, TERMINAL & CASE	2 *U_N+2 kV or 3 kVac whichever is higher for 10S or 20% higher for 2S
INRUSH CURRENT	Up to 400 * I_N
LOSSES	<0.20 W/kVAr (dielectric) <0.5 W/kVAr (total)
CASING	Cylindrical Aluminium Can
ENCLOSURE	IP20
MEAN LIFE EXPECTANCY	1,80,000 h
TEMPERATURE CLASS	-40/55°C
COOLING	Natural air cooled Casing temp. max 80°C permitted on top of the can
DIELECTRIC SYSTEM	Metallized polypropylene film, Self-healing property
IMPREGNATION	NPCB, Biodegradable natural semi soft resin
SAFETY FEATURES	Overpressure sensitive 3 phase disconnector
ALTITUDE	Max. 4000 Meter above sea level
RELATIVE HUMIDITY	Max. 95%
MOUNTING POSITION	Vertical
MOUNTING & EARTHING	M8X10mm, M12X16mm threaded stud, on bottom of case with Nut & Washer
DISCHARGE RESISTORS	External 3 Minutes, 75V
TERMINALS	i) HD-VAR - with M5 Screw on double three way terminals ii) HD-VAR BT - with M-10 threaded Stud

Heavy Duty Capacitors

Note : U_N - RMS Voltage at fundamental frequency without harmonics.
I_N - Rated RMS current (line) at rated voltage and frequency without transients.

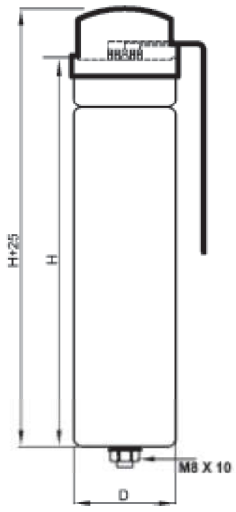
HD-VAR Cylindrical - Heavy Duty MPP Capacitor

HD-VAR Series - Heavy Duty - 400 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAr	Capacitance (in Mfd)	Current (in Amp)	Dimensions D*H (in mm)	Drawing No.
FT-H050-R0400-S1R3	5.0	3*33.17	7.22	75*196	C-5
FT-H075-R0400-S1R3	7.5	3*49.76	10.83	75*196	C-5
FT-H100-R0400-S1R3	10.0	3*66.35	14.43	90*203	C-5
FT-H125-R0400-S1R3	12.5	3*82.94	18.04	90*203	C-5
FT-H150-R0400-S1R3	15.0	3*99.52	21.65	90*243	C-5
FT-H200-R0400-S1R3	20.0	3*132.70	28.87	116*243	C-5
FT-H250-R0400-S1R3	25.0	3*165.87	36.09	116*243	C-5
FT-H300-R0400-S1R3	30.0	3*199.04	43.30	116*283	C-5
BT-H400-R0400-S1R3	40.0	3*265.39	57.74	136*346	C-6
BT-H500-R0400-S1R3	50.0	3*331.74	72.17	136*346	C-6
HD-VAR Series - Heavy Duty - 415 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAr	Capacitance (in Mfd)	Current (in Amp)	Dimensions D*H (in mm)	Drawing No.
FT-H050-R0415-S1R3	5.0	3*30.82	6.96	75*196	C-5
FT-H075-R0415-S1R3	7.5	3*46.23	10.43	75*196	C-5
FT-H100-R0415-S1R3	10.0	3*61.64	13.91	90*203	C-5
FT-H125-R0415-S1R3	12.5	3*77.05	17.39	90*243	C-5
FT-H150-R0415-S1R3	15.0	3*92.46	20.87	90*243	C-5
FT-H200-R0415-S1R3	20.0	3*123.28	27.82	116*243	C-5
FT-H250-R0415-S1R3	25.0	3*154.10	34.78	116*283	C-5
BT-H400-R0415-S1R3	40.0	3*246.55	55.65	136*346	C-6
HD-VAR Series - Heavy Duty - 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.
FT-H050-R0440-S1R3	5.0	3*27.42	6.56	75*196	C-5
FT-H075-R0440-S1R3	7.5	3*41.12	9.84	75*196	C-5
FT-H100-R0440-S1R3	10.0	3*54.83	13.12	90*203	C-5
FT-H125-R0440-S1R3	12.5	3*68.54	16.40	90*203	C-5
FT-H150-R0440-S1R3	15.0	3*82.25	19.68	90*243	C-5
FT-H200-R0440-S1R3	20.0	3*109.67	26.24	116*243	C-5
FT-H250-R0440-S1R3	25.0	3*137.08	32.80	116*243	C-5
FT-H300-R0440-S1R3	30.0	3*164.50	39.37	116*283	C-5
BT-H400-R0440-S1R3	40.0	3*219.33	52.49	136*346	C-6
BT-H500-R0440-S1R3	50.0	3*277.17	65.61	136*346	C-6
HD-VAR Series - Heavy Duty - 480 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAr	Capacitance (in Mfd)	Current (in Amp)	Dimensions D*H (in mm)	Drawing No.
FT-H050-R0480-S1R3	5.0	3*23.04	6.01	75*196	C-5
FT-H075-R0480-S1R3	7.5	3*34.56	9.02	75*196	C-5
FT-H100-R0480-S1R3	10.0	3*46.08	12.03	90*203	C-5
FT-H125-R0480-S1R3	12.5	3*57.59	15.04	90*203	C-5
FT-H150-R0480-S1R3	15.0	3*69.11	18.04	90*243	C-5
FT-H200-R0480-S1R3	20.0	3*92.15	24.06	116*243	C-5
FT-H250-R0480-S1R3	25.0	3*115.19	30.07	116*243	C-5
FT-H300-R0480-S1R3	30.0	3*138.23	36.09	116*283	C-5
BT-H400-R0480-S1R3	40.0	3*184.30	48.11	136*346	C-6
BT-H500-R0480-S1R3	50.0	3*230.38	60.14	136*346	C-6
HD-VAR Series - Heavy Duty - 525 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAr	Capacitance (in Mfd)	Current (in Amp)	Dimensions D*H (in mm)	Drawing No.
FT-H050-R0525-S1R3	5.0	3*19.26	5.50	75*196	C-5
FT-H075-R0525-S1R3	7.5	3*28.89	8.25	75*196	C-5
FT-H100-R0525-S1R3	10.0	3*38.52	11.00	90*203	C-5
FT-H125-R0525-S1R3	12.5	3*48.14	13.75	90*203	C-5
FT-H150-R0525-S1R3	15.0	3*57.77	16.50	90*243	C-5
FT-H200-R0525-S1R3	20.0	3*77.03	21.99	116*243	C-5
FT-H250-R0525-S1R3	25.0	3*96.29	27.49	116*243	C-5
FT-H300-R0525-S1R3	30.0	3*115.55	32.99	116*243	C-5
BT-H400-R0525-S1R3	40.0	3*154.06	43.99	136*346	C-6
BT-H500-R0525-S1R3	50.0	3*192.58	54.99	136*346	C-6

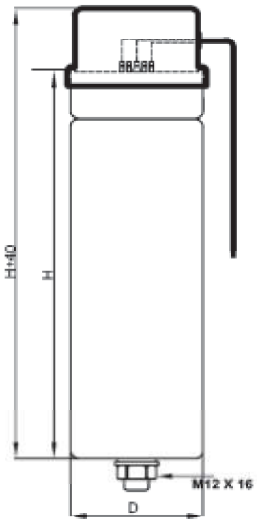
Dimension - Reference Drawings



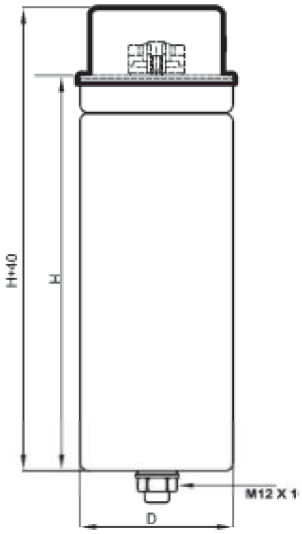
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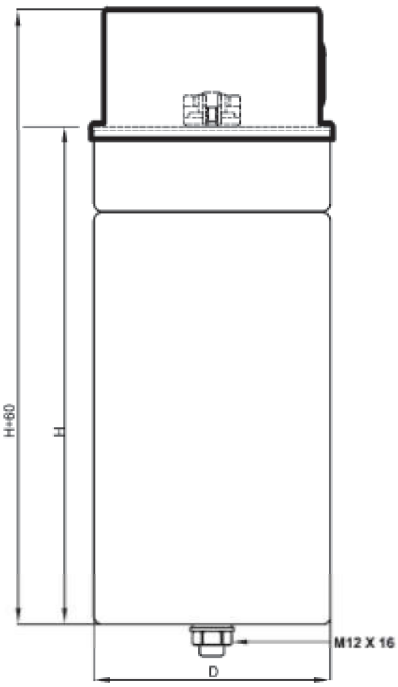
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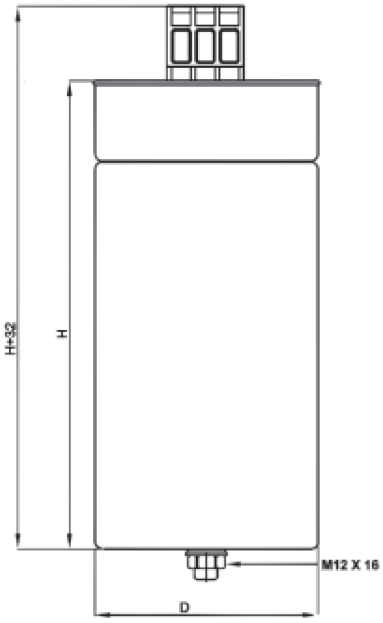
DRAW. **C-3**



DRAW. **C-4**



DRAW. **C-5**



DRAW. **C-6**

