

# 3 Phase compact EMI Filter for Drives

## EMI/EMC Filter For Three Phase system and Motor Drives



- Rated current from 7 to 180 A
- Single stage filter
- Excellent saturation resistance up to 50m cable length
- Most compact and slim filter design in its class

Approvals:



under process

### Technical specifications

Maximum continuous operating voltage: 3x480VAC(EN358)  
3X520VAC (EN358HV)

Operating frequency: dc to 60Hz

Rated currents: 7 to 180A @ 50°C max.

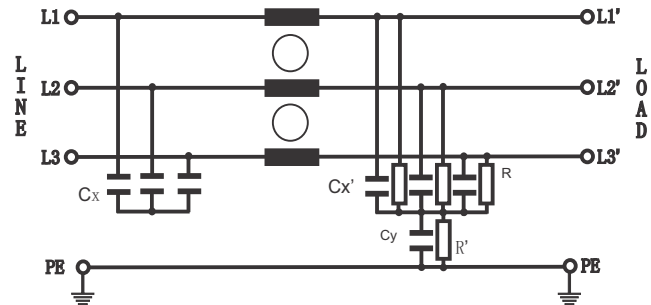
High potential test voltage: L → PE 2650VDC for 2 sec (standard types)

L → L 2100VDC for 2 sec

Temperature range (operation and storage): -25°C to +100°C (25/100/21)

Design corresponding to: UL 1283, CSA 22.2 NO 8, IEC 60939

### CIRCUIT DIAGRAM:



### Feature and Benefits

- The extremely compact and slim filter design allows a trouble-free installation even where the available mounting space is minimal.
- With new additional filter types providing safety terminal blocks, the most preferred connection style can be chosen fast and easy. This helps to stay in line with the electrical connection concept of a given application.
- AMI-358 filters ensure compliance with Class A limits According to EN 55011 up to 50m cable length and beyond. Further
- they can contribute significantly to meet conducted emission limits according to Class B.
- Filter operation on the mains input side of consumers increases their reliability and conducted immunity significant.
- Chokes with exceptional saturation resistance and excellent thermal behavior are vital part of AMI-358 design. Thus, all filters retain the expected filter performance even in very noisy applications and under full load conditions

### Typical Application

- Three-phase variable speed motor drives, servo drives, inverters and converters
- Applications comprising energy conversion devices like machines or process automation equipment
- HVAC equipment, elevators, power supplies, UPS and further Three-phase applications

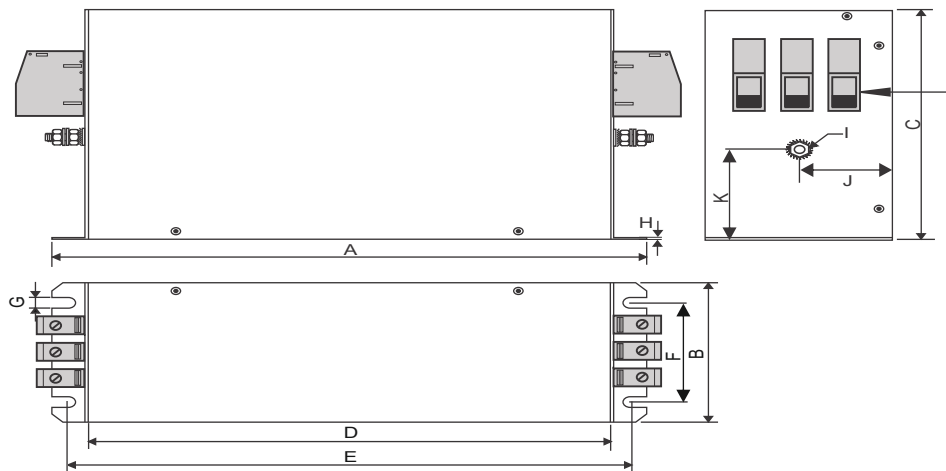
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## 2 EMI FILTER>EN358

### FILTER SELECTION TABLE

PART NO	RATE CURRENT A @50°C (40°C)	TYPICAL DRIVE POWER RATING( KW)	Leakage Current @400Vac/50Hz (mA)	Power Loss @ 25°C/50Hz	Weight (Kg)	CONNECTION TYPE	
						input	output
EN358-07-06	7(7.7)	4	4.3	3.8	0.5	06	06
EN358-16-06	16(17.5)	7.5	4.3	6.1	0.8	06	06
EN358-30-10	30(32.9)	15	4.3	11.8	1.25	10	10
EN358-42-10	42(46.0)	22	4.3	15.7	1.45	10	10
EN358-55-25	55(60.2)	30	4.3	25.9	2.00	25	25
EN358-75-25	75(82.2)	37	4.3	32.2	2.75	25	25
EN358-100-35	100(109.5)	55	4.3	34.5	4.35	35	35
EN358-130-35	130(142.4)	75	4.3	43.1	4.55	35	35
EN358-180-40	180(197.1)	90	4.3	58.3	6.00	40	40

### MECHANICAL DIMENSION (mm):



#### Dimensions

	7A	16A	30A	42A	55A	75A	100A	130A	180A
A	190	250	270	270	250	270	270	270	380
B	50	45	50	50	85	80	90	90	120
C	70	85	85	85	90	135	150	150	170
D	160	220	240	240	220	240	240	240	350
E	180	235	255	255	235	255	255	255	365
F	20	30	30	30	35	60	45	65	102
G	4.5	5.4	5.4	5.4	5.4	6.5	6.5	6.5	6.5
H	1	1	1	1	1	1.5	1.5	1.5	1.5
I	M5	M5	M5	M6	M6	M6	M10	M10	M10
J	20	22.5	25	25	39	39	45	45	51
K	29.5	29.5	39.5	37.5	26.5	70.5	64	64	47
L	AWG 8	AWG 8	AWG 6	AWG 6	AWG2	AWG 2	AWG 1/0	AWG 1/0	AWG 4/0

NOTE - ALL Dimension are in mm

Input/output Connection type -FEED THROUGH TERMINAL BLOCK 6mm<sup>2</sup> to 95 mm<sup>2</sup>