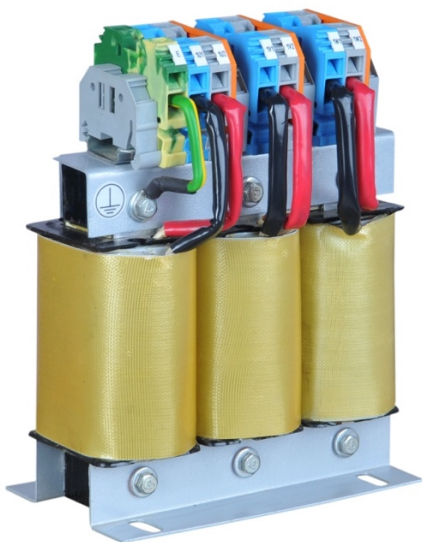




Technical Data

Rated Voltage	: 3 X 380V _{AC} – 480V _{AC}
Rated Frequency	: 50 – 60 Hz
Impedance	: 3% , 5% @ 400V, 50 Hz
Rated Current	: 4A to 500 A
Max. Ambient Temp	: 45° C
Insulation Class	: IEC = F / UL = Class 155
Cooling	: AN
Over Load Capacity	: 1.5x current for 60s / hour
Impulse withstand Voltage	: 2.5 kV _{A.C.}
Degree of protection	: IP00
Efficiency	: Up-to 90%

Features and Benefits

Power harmonic damping
Protection Drive Electronics
Eliminate Drive Crosstalk
Limitation of inrush currents
Improvement of true power factor
Helps to meet power quality standards IEEE 519-2014

Approval



2014/35/EU – Low Voltage Directive

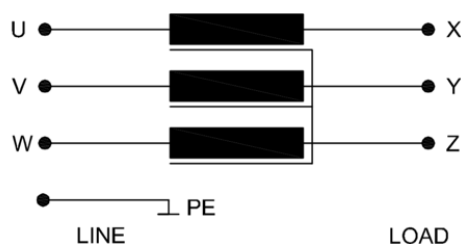
Standards

- EN 61558-2-20:2010
Safety of Power Transformers & Reactors
- IS 12021:2015
Control Transformers for Switchgear
- IEC 60947-2:2005
Low-voltage switchgear and control gear

Application

- Adjustable speed drive system
- Elevators
- Robots & Machinery
- Process automation equipment

Electrical schematic



Reactor selection table

3 % Line Reactor, 400V (50Hz)

Part No.	Rated current @ 45°C [A]	Rated Power @ 400V [HP]	Inductance 3% [mH]	Typical Power Losses [W]	Weight [kg]
HRL-3-4	4	2	5.450	32	1.5
HRL-3-8	8	5.5	2.740	50	2
HRL-3-12	12	7.5	1.830	62	2.5
HRL-3-18	18	10	1.220	92	3.4
HRL-3-25	25	15	0.880	100	5.0
HRL-3-35	35	25	0.630	138	5.4
HRL-3-45	45	30	0.490	162	8.8
HRL-3-55	55	40	0.400	180	10.2
HRL-3-80	80	60	0.275	235	11.4
HRL-3-100	100	75	0.220	290	13.8
HRL-3-130	130	100	0.170	325	15.7
HRL-3-160	160	125	0.137	410	20.0
HRL-3-200	200	150	0.110	520	25.5
HRL-3-250	250	175	0.087	580	27.5
HRL-3-320	320	215	0.068	720	35.8
HRL-3-400	400	270	0.054	900	45.5
HRL-3-500	500	350	0.043	990	52.5

5 % Line Reactor, 400V (50Hz)

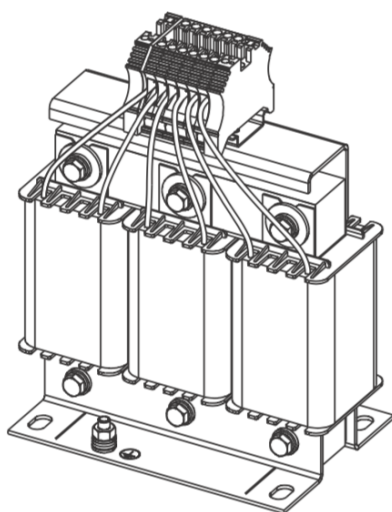
Part No.	Rated current @ 45°C [A]	Rated Power @ 400V [HP]	Inductance 5% [mH]	Typical Power Losses [W]	Weight [kg]
HRL-5-4	4	2	9.235	43	2.0
HRL-5-8	8	5.5	4.617	67	3.0
HRL-5-12	12	7.5	3.078	83	3.6
HRL-5-18	18	10	2.052	124	5.0
HRL-5-25	25	15	1.477	135	7.2
HRL-5-35	35	25	1.055	186	7.8
HRL-5-45	45	30	0.820	218	12.5
HRL-5-55	55	40	0.671	243	15.0
HRL-5-80	80	60	0.461	317	16.5
HRL-5-100	100	75	0.369	391	20.0
HRL-5-130	130	100	0.284	438	22.7
HRL-5-160	160	125	0.230	553	29.0
HRL-5-200	200	150	0.184	702	37.0
HRL-5-250	250	175	0.147	783	40.0
HRL-5-320	320	215	0.115	972	52.0
HRL-5-400	400	270	0.092	1215	66.0
HRL-5-500	500	350	0.073	1336	76.0

Power harmonic damping (THD_i) – 6 Pulse Rectifier/Drive

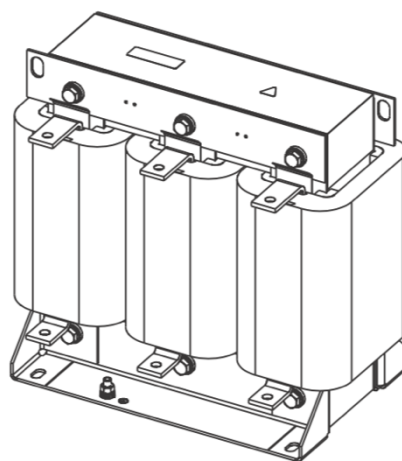
	Without line Reactor	3 % Line Reactor	5 % Line Reactor	8 % Line Reactor
5 th	80 %	40 %	32 %	26 %
7 th	60 %	16 %	12 %	9.0 %
11 th	18 %	7.3 %	5.8 %	4.3 %
13 th	10 %	4.9 %	3.9 %	3.1 %
17 th	7.3 %	3.0 %	2.2 %	0.7 %
19 th	6.0 %	2.2 %	0.8 %	0.3 %
Total Distortion (THD _i) %	102.5	44.13	34.96	28.04

Input / Output Connections

Wago® Terminal

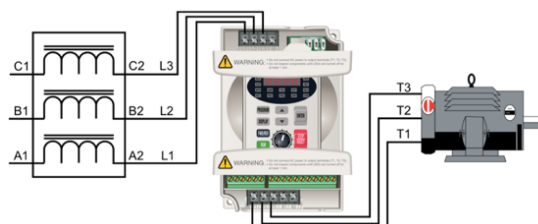


Busbar Terminal



Application Configuration

Input side of the single drive



Input side of multiple drives

