QPS®

LINE REACTOR

rated voltage
· 3 x 415V 50Hz

% impedance
· 4%

frequency
· 50Hz

test voltage
· 2.5kV

degree of protection
· IP 00

rated current
· refer to table

winding material
· copper or aluminium
· polyester enamelled wire
155°C (Class F) &
180°C (Class H)
· fiberglass wire
180°C (Class H)

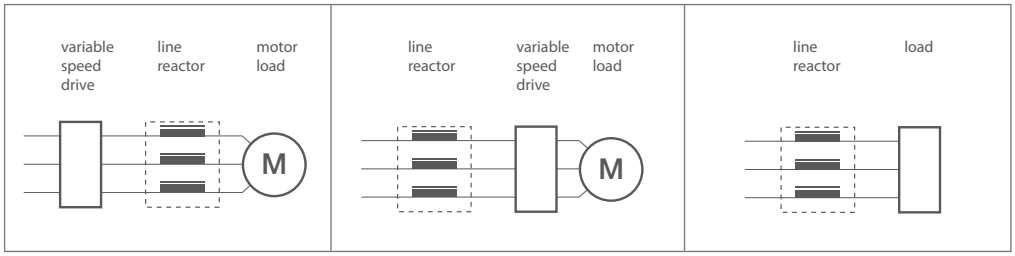
reactor core
· 0.5mm high grade silicon steel
from Japan and Korea

varnish
· high grade high temperature
polyester varnish

insulation class
· class F or H

ambient temperature
· max 40°C

diagram



line reactor:
· reduce inrush current
· reduce noise and
temperature of the motor
· increase the life span of
semiconductors

line reactor:
· suppresses interference and
transients generated from the
electrical system
· smooth the harmonics
· reduce inrush current
· increase the life span of
semiconductors

line reactor:
· suppresses interference
coming from the electrical
system or load
· smooth the harmonics
· reduce inrush current

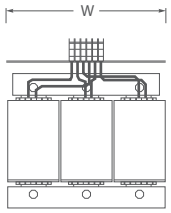
introduction

With the increase in demand for better quality products at minimum cost, new equipment or machines are being develop using electronic devices to meet individual requirements. One of the devices that has gone through tremendous improvement is the variable speed drive. However, variable speed drives are very sensitive to line fluctuations and other nuisance problems.

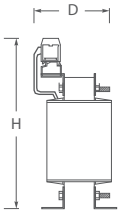
Line reactors offer an economical solution to a variety of problems especially in variable speed drive installations. They act as current limiting device, as well as filters for electrical noises and harmonics generated from the loads. It is applicable to either the input or the output of the drives.

LINE REACTOR

dimension

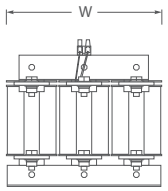


front view

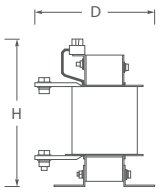


side view

type A



front view



side view

type B

3 phase line reactor 415V 50Hz 4%

technical specification

model	type	current (A)	inductance (mH)	dimensions (mm)			weight (kg)
				w	d	h	
3LR8	A	8	3.813	175	130	170	3.9
3LR12	A	12	2.542	210	110	220	5.8
3LR18	A	18	1.695	210	125	220	7.5
3LR28	B	28	1.089	210	150	160	8.7
3LR40	B	40	0.763	210	165	160	10.9
3LR50	B	50	0.610	240	170	210	15.0
3LR63	B	63	0.484	240	180	210	17.4
3LR80	B	80	0.381	270	180	210	19.1
3LR125	B	125	0.244	270	205	210	26.6
3LR160	B	160	0.191	300	200	260	34.7
3LR200	B	200	0.153	315	220	260	38.0