


DATASHEET

dv/dt FILTERS

Description

Output filters are used in combination with variable speed drives for reduction of drive output voltage dv/dt

Technical Specifications

Rated Voltage	400VAC
Operating Frequency	50Hz
Rated Current	4A to 1100A @ 40°C
Overload Capability	1.5 times of rated current for 1 Minute once per hour
Design Corresponding to	EN 61558-2-20, EN 60076-6
Climatic Category	25/85/21
Type of Cooling	Natural Cooling AN
Protection Category	IP00
Ambient temperature range	-25°C to +40°C
Insulation Class	Class F

Approval & Compliance



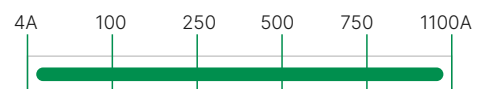
Features

- Reduce dv/dt significantly
- Reduction of voltage stress at motor windings.
- Elimination of premature motor damage caused by high dv/dt, over voltages, cable ringing, motor overheating and eddy current losses
- Increase Service life of Motor
- Improvement of System reliability.
- Efficient reduction of high output voltage dv/dt from IGBT motor drives.
- Restriction of overvoltage's caused by line reflections on motor cables.

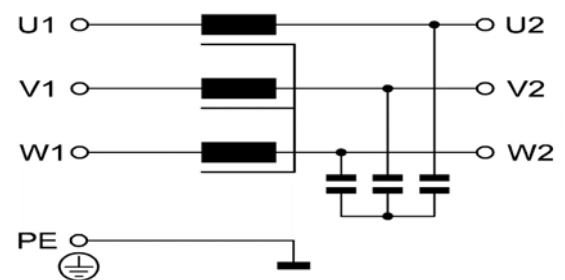
Applications

- HVAC applications.
- Motor Drives with medium motor Cable lengths.
- Conveyors
- Machinery comprising servo or torque motors
- Elevators & Cranes.
- High dynamic load applications.

Rated current [A]



Connection Diagram



Technical Data

Part Number	*Rated Power @400V (KW)	Rated Filter input current @ 40°C (A)	*Rated Power @ 400VAC (KW)
PQDT-4-1.5-DC3	4.00	1.5	0.300
PQDT-8-3.1-DC3	8.00	3.1	0.145
PQDT-12-5.5-DC3	12.00	5.5	0.095
PQDT-24-11-DC3	24.00	11	0.098
PQDT-30-15-DC3	30.00	15	0.254
PQDT-45-22-DC3	45.00	22	0.170
PQDT-60-30-DC3	60.00	30	0.127
PQDT-70-37-DC3	70.00	37	0.109
PQDT-90-45-WL3	90.00	45	0.085
PQDT-110-55-WL3	110.00	55	0.069
PQDT-150-75-WL3	150.00	75	0.051
PQDT-180-90-WL3	180.00	90	0.042
PQDT-250-132-WL3	250.00	132	0.031
PQDT-320-160-BB3	320.00	160	0.024
PQDT-400-200-BB3	400.00	200	0.019
PQDT-500-250-BB3	500.00	250	0.015
PQDT-600-315-BB3	600.00	315	0.013
PQDT-700-400-BB3	700.00	400	0.011
PQDT-900-500-BB3	900.00	500	0.008
PQDT-1100-630-BB3	1100.00	630	0.007

Note: *General purpose four-pole (1500 r/min) AC induction motor rated 400 V/50 Hz.