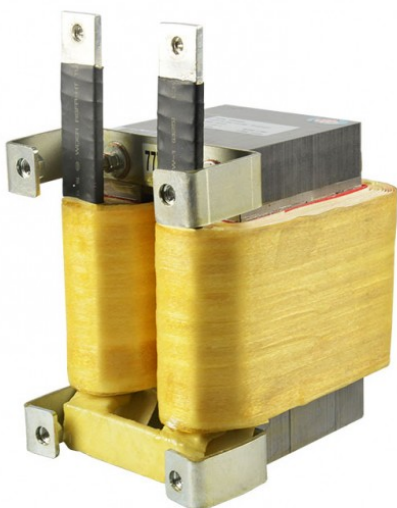




Technical Data

Rated Voltage	: 800V _{DC}
Ripple Frequency	: 300 / 360 Hz
DC Ripple Current	: 30% _{MAX}
Impedance	: 4% – 10%
Rated Current	: 4A to 300 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	: 3.0 kV _{A.C.}
Degree of protection	: IP00
Efficiency	: Up-to 90%

Features and Benefits

- Reduce AC input line harmonics
- Reduce ripple on DC bus
- Advantages over the mains choke
- Smaller size
- Lower cost
- Helps to meet power quality standards IEEE 519-2014

Approval



2014/35/EU – Low Voltage Directive

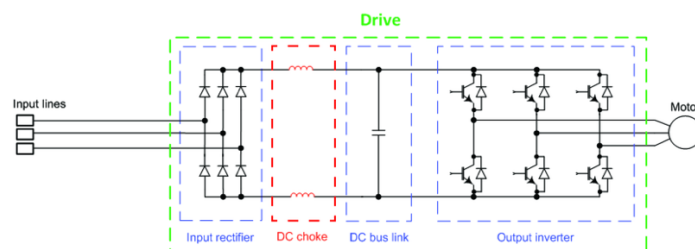
Standards

- 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

- PWM inverters/drives
- DC to AC inverters
- Power supplies
- Wind turbines

Electrical schematic



Reactor selection table

HDCR-3, 800V_{DC}

Part No.	DC current @ 45°C [A]	Inverter Power @ 400V [kW]	Inductance [mH]	Typical Power Losses [W]	Weight [kg]
HDCR-3-4	4	2	24.0	3	1.0
HDCR -3-9	9	4	12.0	3.5	1.3
HDCR -3-12	12	5	6.4	4.4	1.6
HDCR -3-18	18	7	4.4	6.5	2.2
HDCR -3-25	25	10	2.0	7.1	3.3
HDCR -3-32	32	12.5	1.6	9.8	3.6
HDCR -3-40	40	15	1.52	11.5	5.8
HDCR -3-50	50	20	1.44	12.8	6.8
HDCR -3-62	62	25	1.12	16.7	7.6
HDCR -3-80	80	30	0.80	20.7	9.2
HDCR -3-92	92	36	0.67	23.2	10.4
HDCR -3-110	110	45	0.48	29.2	13.3
HDCR -3-125	125	50	0.40	37.1	17.0
HDCR -3-150	150	60	0.35	41.1	18.3
HDCR -3-200	200	80	0.28	51.1	23.8
HDCR -3-240	240	95	0.16	64.2	30.3
HDCR -3-300	300	115	0.12	70.7	35.0

HDCR-5, 800V_{DC}

Part No.	DC current @ 45°C [A]	Inverter Power @ 400V [kW]	Inductance [mH]	Typical Power Losses [W]	Weight [kg]
HDCR-5-4	4	2	30.0	3.2	1.2
HDCR -5-9	9	4	15.0	5.0	1.6
HDCR -5-12	12	5	8.0	6.2	2.0
HDCR -5-18	18	7	5.5	9.2	2.8
HDCR -5-25	25	10	2.54	10.0	4.1
HDCR -5-32	32	12.5	2.0	13.8	4.5
HDCR -5-40	40	15	1.9	16.2	7.3
HDCR -5-50	50	20	1.8	18.0	8.5
HDCR -5-62	62	25	1.4	23.5	9.5
HDCR -5-80	80	30	1.0	29.0	11.5
HDCR -5-92	92	36	0.84	32.5	13.0
HDCR -5-110	110	45	0.60	41.0	16.6
HDCR -5-125	125	50	0.50	52.0	21.2
HDCR -5-150	150	60	0.44	58.0	23.0
HDCR -5-200	200	80	0.36	72.0	30.0
HDCR -5-240	240	95	0.20	90.0	38.0
HDCR -5-300	300	115	0.16	98.0	44.0