

Client :

Doc. Number :

Project:

Date :

Page 1 of 3 Rev: 00

DYNAMIC BRAKING RESISTOR DATA SHEET

Rev	Revision Date	Description	Compiled	Checked	Approved

Client :

Doc. Number :

Project:

Date :

Page 2 of 3 Rev: 00

<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATIN</u>	<u>BIDDER SPECIFICATION</u>
1. GENERAL		
1-1. QUANTITY		
1-2. CODES & STANDARDS		NEMA ICS-9, IEEE-32 (1972), IEC 60439-1
2. SERVICE CONDITIONS		
2-1. LOCATION	<input type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR	<input type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR
2-2. AMBIENT TEMPERATURE	MAX: °C MIN: °C	MAX: °C MIN: °C
2-3. MAX RELATIVE HUMIDITY	%	%
2-4. ALTITUDE (SEA LEVEL)	m	m
2-5. SEISMIC WITHSTAND FACTOR (Ver/Hor)	g	g
3. SYSTEM & RATING		
3.1 RATING OF DBR		
3.1.1. NUMBER OF PHASES		
3.1.2. CONTINUOUS POWER RATING	kW	kW
3.1.3. MAX. OPERATING POWER	kW	kW
3.1.4. PHASE CONFIGURATION	<input type="checkbox"/> 2WIRES (L+N) <input type="checkbox"/> 3WIRES (L1+L2+L3) <input type="checkbox"/> 4WIRES (L1+L2+L3+N)	<input type="checkbox"/> 2WIRES (L+N) <input type="checkbox"/> 3WIRES (L1+L2+L3) <input type="checkbox"/> 4WIRES (L1+L2+L3+N)
3.1.5. RATED VOLTAGE	kV	kV
3.1.6. MAX SYSTEM VOLTAGE	kV	kV
3.1.7. PHASE TO NEUTRAL VOLTAGE	kV	kV
3.1.8. RATED WITHSTAND VOLTAGE	kV	kV
3.1.9. RATED LIGHTNING IMPULSE VOLTAGE	kV	kV
3.1.10.LINE RATED CURRENT	A	A
3.1.11.MAX. OPERATING CURRENT	A	A
3.1.12.FREQUENCY	Hz	Hz
3.1.13.NEMA RESISTOR CLASS		
3.1.14.OHMIC VAL. OF EACH PHASE @20 °C / TOLE.	Ω / ± %	Ω /± %
3.1.15.DUTY CYCLE	s	s
3.1.16.MAX. TEMPERATURE RISE	°C	°C
3.1.17.OHMIC VAL. OF EACH PHASE at MAX. TEMP.	Ω	Ω
3.1.18.OHMIC VAL. OF EACH PHASE at MIN. TEMP.	Ω	Ω
3.1.19.OHMIC VAL. OF EACH PHASE at MAX. TEMP. RISE	Ω	Ω
4. CONSTRUCTION		
4.1. RESISTOR ELEMENTS		
4.1.1. TYPE OF RESISTOR		
4.1.2. MATERIAL OF RESISTOR		
4.1.3. RESISTOR SCREW & NUT MATERIAL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4.1.4. CONNECTIONS MATERIAL	<input type="checkbox"/> STAINLESS STEEL <input type="checkbox"/> ALUMINUM <input type="checkbox"/> BRASS <input type="checkbox"/> COPPER	<input type="checkbox"/> STAINLESS STEEL <input type="checkbox"/> ALUMINUM <input type="checkbox"/> BRASS <input type="checkbox"/> COPPER
4.2. CABLE ENTRY		
4.2.1. ENTRY CONNECTION	<input type="checkbox"/> BUSHING <input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> BUSBAR <input type="checkbox"/> TERMINAL	<input type="checkbox"/> BUSHING <input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> BUSBAR <input type="checkbox"/> TERMINAL
4.2.2. INCOMING POSITION	<input type="checkbox"/> TOP <input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM <input type="checkbox"/> FROM CABLE BOX	<input type="checkbox"/> TOP <input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM <input type="checkbox"/> FROM CABLE BOX
4.2.3. OUTGOING POSITION	<input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM <input type="checkbox"/> FROM CABLE BOX	<input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM <input type="checkbox"/> FROM CABLE BOX
4.2.4. INCOMING PROTECTION	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED
4.2.5. OUTCOMING PROTECTION	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED

Client :

Doc. Number :

Project:

Date :

Page 3 of 3 Rev: 00

<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATIN</u>	<u>BIDDER SPECIFICATION</u>
4.3. ENCLOSURE		
4.3.1. INDEX OF PROTECTION (IEC 60529)	IP	IP
4.3.2. ENCLOSURE MOUNTING	<input type="checkbox"/> FIX ON WALL <input type="checkbox"/> FIX ON FLOOR	<input type="checkbox"/> FIX ON WALL <input type="checkbox"/> FIX ON FLOOR
4.3.3. ENCLOSURE MATERIAL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4.3.4. ENCLOSURE SCREW & NUT MATERIAL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4.3.5. ENCLOSURE COLOR (if applicable)	RAL	RAL
4.3.6. LIFTING LUGS	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4.3.7. FOUNDATION BOLTS	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4.3.8. NAME PLATES	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4.3.9. WARNING PLATES	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
5. ACCESSORIES		
5.1. THERMAL SENSOR	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
5.1.1. N.C. SWITCH	<input type="checkbox"/> interlock <input type="checkbox"/> switch <input type="checkbox"/> contactor	<input type="checkbox"/> interlock <input type="checkbox"/> switch <input type="checkbox"/> contactor
5.2. TERMINAL BOX	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
6. COOLING METHOD		
6-1. COOLANT FLUID	<input type="checkbox"/> AIR <input type="checkbox"/> OIL	<input type="checkbox"/> AIR <input type="checkbox"/> OIL
6-2. COOLING METHOD	<input type="checkbox"/> NATURAL <input type="checkbox"/> FORCED	<input type="checkbox"/> NATURAL <input type="checkbox"/> FORCED
6-3. COOLING FLOW DIRECTION (if AF)	<input type="checkbox"/> HORIZONTAL <input type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL <input type="checkbox"/> VERTICAL
6-4. VOLUMETRIC AIRFLOW RATE (if AF)	m ³ /h	m ³ /h
6-5. ENTRY CONNECTION (if INDEPENDENT EXTERNAL SUPPLY)	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING
7. SPARE PARTS		
7-1. FOR START UP & COMMISSIONING	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
7-2. FOR 2 YEAR OPERATION &MAINTENANCE	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
8. DIMENSIONS & WEIGHT		
8-1. DIMENSIONS (W×L×H)	mm ³	mm ³
8-2. NET WEIGHT	kg	kg
8-3. ENCLOSURE WEIGHT	kg	kg
9. PACKAGING		
8-4. PACKAGING (According to Packing Procedure)	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE