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OBJECT

BRUSHLESS MOTOR KBL100-60-481K4

MOTOR TECHNICAL DATA

01	MOTOR TYPE		BRUSHLESS DC MOTOR KBL100-60-481K4	
02	NUMBER OF POLES	$2p$	8	
03	NUMBER OF PHASES		3	
04	PHASE CONNECTION		STAR (STAR POINT NOT ACCESIBLE)	
05	DC RATED VOLTAGE	V_{DC}	48	V
06	AC RATED VOLTAGE	V_{AC}	33	V
07	RATED PHASE CURRENT	I_{ph}	38	A
08	RATED POWER	P_{mech}	1,4	kW
09	MAX NO LOAD SPEED		4000	rpm
10	RATED SPEED		3200	rpm
11	RATED TORQUE	T_{max}	4,2	Nm
12	PEAK TORQUE	T_{peak}	10	Nm
13	CONTINUOUS STALL TORQUE	T_{stall}	6,1	Nm
14	EQUIVALENT PHASE RESISTANCE	R_{ph}	24	mΩ
15	EQUIVALENT PHASE INDUCTANCE	L_{ph}	55	μH
16	TORQUE CONSTANT	k_T	0,11	Nm/A
17	BACK EMF	k_E	10,7	V/rpm
18	FEEDBACK SENSORS		3 x HALL SENSORS	
19	TIMING		120°	
20	MECHANICAL TIME CONSTANT	t_{mech}	-	ms
21	ELECTRICAL TIME CONSTANT	t_{el}	-	ms
22	THERMAL RESISTIVITY	K	-	°C/W
23	ROTOR INERTIA	J	-	g-cm ²

STANDARD REFERECES

CEI EN 60034-1	Rotating electrical machines - Part 1: Rating and performance
CEI EN 60034-5	Rotating electrical machines - Part 5: Degrees of protection
2006/95/EC	Low Voltage
2004/108/EC	Electromagnetic Compatibility

DESCRIPTION

DOCUMENT	DOCUMENT REF.	REV DESCRIPTION		DATE	PAGE 1
		A	Document creation		
DATASHEET - BRUSHLESS MOTOR KBL100-60-481K4	-				