

ABB BALDOR RELIANCE III



Customer information packet DMG2305

5KW, 2500RPM, DC, 1810AT, DPF, TOD

Specifications

Armature Voltage	230 V
Base Speed	2500 rpm
Enclosure	DPFG
Field Voltage	230 V
Frame	1810AT
Output Power	5.000 KW
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	21.7 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	COMPOUND
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	21.45 IN
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0006B
Layout	1486-2
Eff. date	01-12-2022
CD Diagram	
Poles	00
Leads	
Proprietary	False
Created date	12-12-2019

Nameplate

15405										
CAT.NO.		MODEL NO.	T18S8004							
KW	5KW	RPM	2500	FRAME	1810AT					
ARM VOLTS	230	ARM AMPS	21.70	WOUND	COMPOUND					
FIELD VOLTS	230	FIELD AMPS	.62							
FIELD CONN.		OHMS	267.4	INSUL. CLASS	F					
ENCL	DPFG	DUTY	CONT	MAX AMBIENT	40					
SERVICE FACTOR										
S/N		E/S	K0006B							
	-									
O.D.E. BRG.	6205	D.E. BRG.	6206	BRUSH	18044-4				QTY	2

Accessories

Part number	Description	Multiplier
90EP5000A02	C-FACE CONVERSION KIT FOR STOCK MTR,FR 1	

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS	
	1810	5.00HP	2500	230	21.7	
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STAB. SHUNT		1.0	DPG	40/F	CONT	230
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES	
A	T	.9565	.442	.860	370	
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H ² O)		URNS PER COIL SHUNT/SERIES	TEST DATE	
6.36	139	-/-		2300/7	-	
LOAD PERFORMANCE						
LOAD	AMPERES	TORQUE IN OZ.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY	
NO LOAD	456	0	0	2520	0	
1/4	5.4	0	0	2480	0	
2/4	11	0	0	2441	0	
3/4	16	0	0	2416	0	
4/4	22	0	0	2373	0	
O.L.	33	0	0	2311	0	
RPM VS. FIELD AMPS						
FIELD AMPS	RPM N.L.	RPM F.L.	Eg VS. FIELD AMPS			
			Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED		
.620	2520	2372	226	220		
.579	2517	2735	225	218		
.537	2521	2753	223	216		
.495	2554	2775	219	213		
.454	2614	2800	215	210		

REMARKS: TYPICAL DATA



DR. BY E. GILLOT
 CK. BY B. GRANT
 APP. BY R. ERLACHER
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D-C MOTOR DK0006B
PERFORMANCE
DATA ISSUE DATE 02-07-2008

