

ABB BALDOR RELIANCE III

Customer information packet

DMG2305

5KW, 2500RPM, DC, 1810AT, DPFG, 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

Parts List

Part number	Description	Quantity
SA376987	SA T18S8004	1.000 ea
AA018213	AA T18S8004	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
15405	ALUM CSA DC GENERATOR	1.000 ea
000613006NT	NAME PLATE IEC	1.000 ea
004824007AB	PAINT,XT	0.100 ea
034017014AB	LCKW 3/8 STD. PLATED	12.000 ea
ME3002A06	COMMUTATOR ISOLATOR FOR 18043 COMM	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	2.000 ea
034000012AB	WSHR 1/4 STD. PLATED	2.000 ea
18006	BRUSH ROCKER ASSY FRAME 180SERIES	1.000 ea
18044-4	BRUSH, (2PC SET) GR.E41,210 SER.SGL	2.000 ea
18082-11	ODE BRKT MACH,FR 180,SPL FOR GENERATOR,S	1.000 ea
18032-9	DE BRKT MACH,FR 180 AT, DPFG, NO LUBE LI	1.000 ea
032130008BA	5/16-18 X 1.0 HSHCS	4.000 ea
032130008BA	5/16-18 X 1.0 HSHCS	4.000 ea
HA4048A05	DRIVE-IN PLUG,1.38"EXPAN.PLUG,	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
15490	LIFTING LUG,180 FRAME	2.000 ea
150449-25	T BOX GRD STUD ARG 1/4 20 DIA. STUD	1.000 ea
WD4100A34	CAPLUG IN T-SERIES T12	1.000 ea
18026	GASKET,T BOX COVER,FR.1803/32 THK CORK/N	1.000 ea
18027	GASKET,ACCESS CVR,FR.180 3/32 THK DC205(	2.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	6.000 ea
18019	TERMINAL BOX COVER FRAME 180	1.000 ea
18020	BRUSH VENT COVER FR 18 SERIES #18 GA ST	1.000 ea
18020	BRUSH VENT COVER FR 18 SERIES #18 GA ST	1.000 ea
151128	LABEL DC GENERATOR CONN. & TERMINA	1.000 ea
034180011DA	1/4 SQ X 1.375 KEY	1.000 ea
MG1025G05	WILKOFAS, 789.227, MED. GRAY CHAR. MET.	0.200 ga

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
STAB. SHUNT		1.0	DPG	40/F	CONT
POWER CODE		TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C
A		T	.9565	.442	.860
ARM. CIR. IND. (mh)		FIELD IND. (H)	COOLING AIR(CFM/IN H ² 0)	TURN 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 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 DATE 02-27-2008		D-C MOTOR PERFORMANCE DATA	
				DK0006B ISSUE DATE 02-07-2008	

