

ABB BALDOR RELIANCE III

Customer information packet

CDD1803R

3HP, 1750RPM, DC, 189ATCZ, DPG,

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	DP
Field Voltage	200 V
Frame	DC0189ATCZ
Output Power	3.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Armature Current	14.8 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	DC
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F3
Overall Length	21.82 IN
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

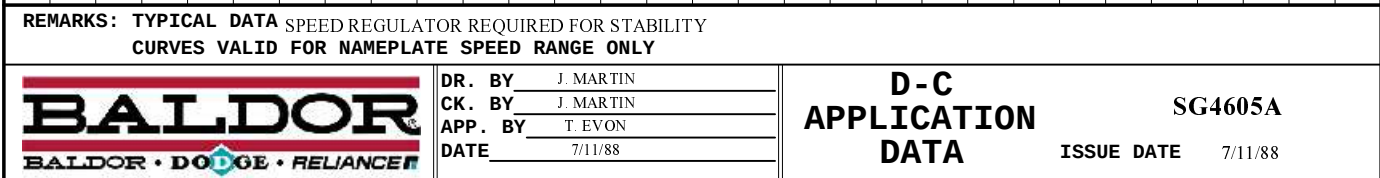
Part Detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G4605A
Layout	609980-503
Eff. date	01-02-2020
CD Diagram	406770-007
Poles	00
Leads	
Proprietary	False
Created date	12-27-2019

Nameplate

000613006HP									
CAT.NO.	CDD1803R	SPEC NO.		T18S1120					
FR	DC0189ATCZ	HP	3	DUTY			CONT		
ENCL.	DP	RPM	1750	S.F.			1.0		
ENCL MOD		VOLTS	180	INSUL			F		
MAX SAFE SPEED	04500	AMPS	14.80	AMB.			40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE		2/2-230-60-0					
VOLTS	100/200	D.E. BRG.		30BC02JPP30A					
MAX AMPS @ 25 C	1.90/.95	O.D.E. BRG.		30BC02JPG30A					
HOT AMPS	1.46/.73	MIN. AMB.		0			TYPE		TR
BRUSH:419904050A									
SPLASHPROOF									

ABB BALDOR RELIANCE III		POWER INFORMATION		MOTOR DATA		CDD1800		BASE SPEED		WINDING TYPE	
DC189AT		3.00HP		1750		STRAIGHT SHUNT					
S.F. 1.0	ENCL. DPG	AMB°C/INSUL 40/F		DUTY CONT		POWER CODE/FORM FACTOR 2/2 230-60-0		TYPE TR		WK ² (LB-FT ²) .6247	
COOLING AIR(CFM/IN H ₂ O) -/-		T _U (sec) .394		T _R (hot) .120		T _E .00769		T _M .0474		BASIC RPM 1950	
								MAX CONT RPM 2300		WINDER RPM -	
										MAX. SAFE 4500	
WINDING		VOLTS		RESISTANCE		CURRENT		INDUCTANCE		TURNS PER COIL	
				25°C	HOT	25°C	HOT				
ARM CIRCUIT		180		.875 1.17		- 14.8		10.0 mH		-	
SERIES S1-S2		-		-		-		-		-	
SHUNT F1-F2		200		211 268		.946 .745		36.3 H		2000	



REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	DC189AT	3.00HP	1750	180	14.8
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STRAIGHT SHUNT		1.0	DPG	40/F	CONT
POWER CODE		TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C
2/2 230-60-0		TR	.6247	1.17	.946
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H ² 0)		URNS PER COIL SHUNT/SERIES	TEST DATE
10.0	36.3	-/-		2000/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.60	0	0	1881	0
1/4	3.7	2.06	.722	1844	62.9
2/4	7.4	4.47	1.54	1810	72.5
3/4	11	6.81	2.31	1783	74.4
4/4	15	8.99	3.03	1770	74.1
O.L.	22	12.9	4.32	1763	71.7
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
.745	1881	1770	166	158	
.678	1932	1856	162	151	
.610	2002	1965	157	143	
.543	2114	2107	148	133	
.476	2282	2300	138	122	
REMARKS: TYPICAL DATA MAXIMUM SAFE SPEED = 4500 RPM SPEED REGULATOR REQUIRED FOR STABILITY					
		DR. BY J. MARTIN CK. BY J. MARTIN APP. BY T. EVON DATE 7/11/88		D-C MOTOR PERFORMANCE DATA DG4605A ISSUE DATE 7/11/88	

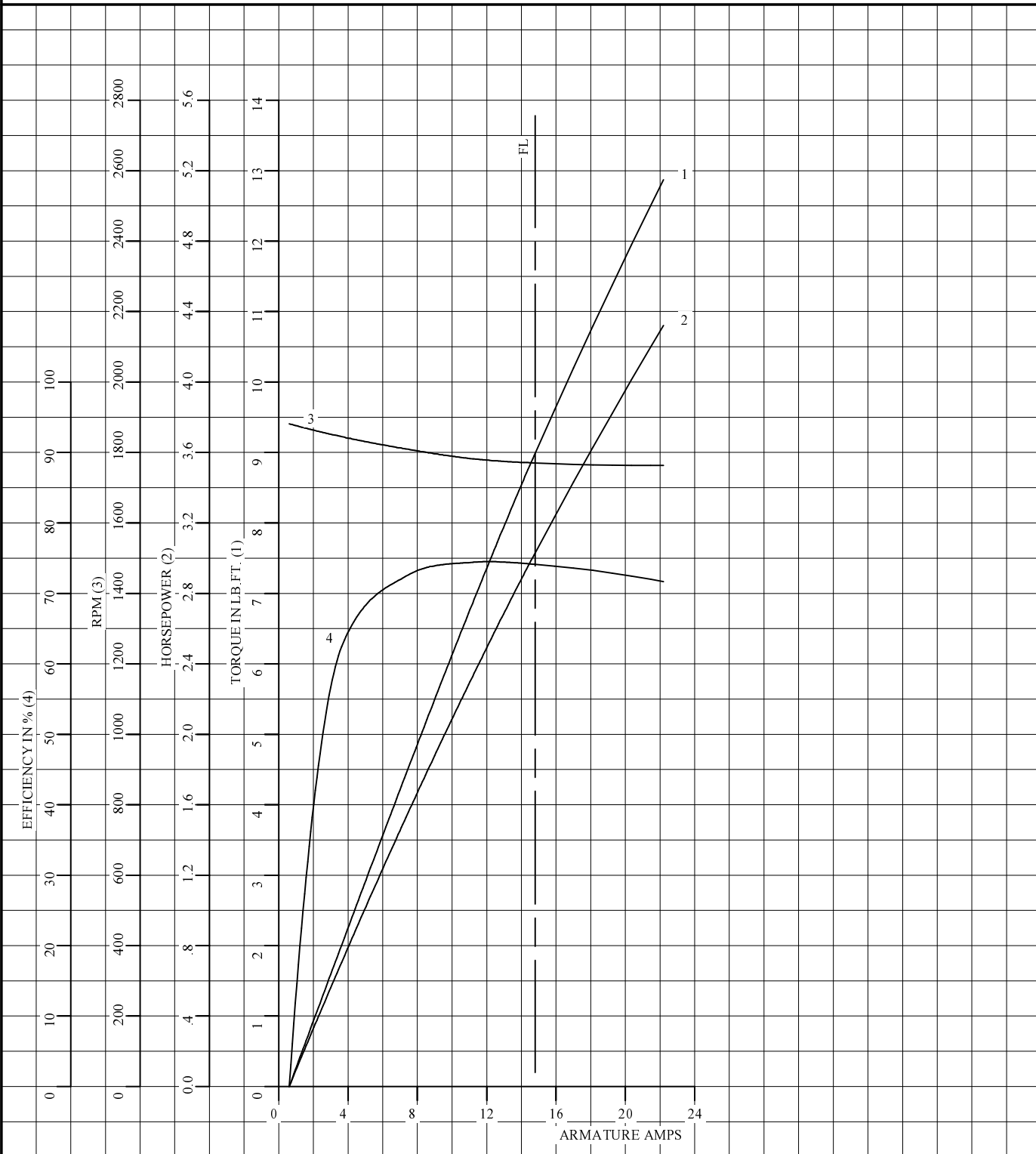
HP/KW 3.00HP
RPM 1750
ARM. VOLTS 180
WDG. TYPE STRAIGHT SHUNT

ENCL. DPG
AMB °C INSL. 40/F
ARM. AMPS 14.8
FIELD VOLTS 200

WK2(LB-FT2) .6247
HOT ARM. CIR. RES. 1.17
ARM. CIRCUIT IND(mh) 10.0
HOT FIELD RES. 268

FLD.AMPS@25 °C .946
FIELD IND (H) 36.3
CFM/IN. H₂O -/-
TEST S.O. -
TEST DATE -

POWER CODE 2/2 230-60-0



REMARKS: TYPICAL DATA SPEED REGULATOR REQUIRED FOR STABILITY



DR. BY J. MARTIN
CK. BY J. MARTIN
APP. BY T. EVON
DATE 7/11/88

**D-C
PERFORMANCE
CURVES**

PG4605A

ISSUE DATE 7/11/88

