

ABB BALDOR RELIANCE III

Customer information packet

CD6215

1.5HP, 1750RPM, DC, 184C, 3636D, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	100 V
	200 V
Frame	184C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	1.500 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	7.5 a
Armature Inertia	30.342 lb-ft ²
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	SHUNT
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 18 AWG
	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	17.41 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT

Part Detail

Revision	Z
Type	DC
Mech. spec.	36-5257
Base	
Status	PRD/A
Elec. spec.	36WGZ106
Layout	36LY5257
Eff. date	11-12-2024
CD Diagram	CD0860C01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0111L			
CAT.NO.	CD6215		
SPEC.	36-5257Z106		
HP	1.5	ENCL	TEFC
RPM	1750		
FRAME	184C	TYPE	3636D
ARM V	180	ARM A	7.5
FLD V	200/100	FLD A	.25/.5
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	----
BRG/DE	6206	BRG/ODE	6205
BRUSHES	2/BP5125A01		
	BLANK		
SER.			
BLANK			
APRV-CSA		APRV-UL	

Parts List

Part number	Description	Quantity
SA006659	SA 36-5257Z106	1.000 ea
AA003293	AA 36-5257Z106	1.000 ea
36CB3000SP	CONDUIT BOX, CAST	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
36EP3300A03	FR ENDPLATE, MACH	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3303A06	STD PU ENDPLATE -ENCL- 206 BRG, NO GRSR,	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1000A25	1/4 SAE FLAT WASHER (FS)	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH5000A11	FAN COVER/TACH. ACC. ASSY.08 45823107	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CV4000	INSPECTION COVER, BRUSH Z	2.000 ea
36GS1016	GASKET, BRUSH INSP COVER X	2.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
35CB4514	35 LIPPED CB LID	1.000 ea
36GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK #SV-3	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
19XM3118A10	5/16-18X5/8 HX HD ROLL FM#93882A578 MCMA	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
36RK5002A01	ROCKERARM ASSY - H45	1.000 ea

HA3101A33	THRUBOLT 1/4-20 X 12.000	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0860	CONN. DIAGRAM-DC(SHUNT WOUND MOTOR)	1.000 ea
NP0111L	NP STD LASER ENGRAVED DC MOTORS, UL CSA	1.000 ea
35PA1007	PKG GRP, PRINT PK1034A07	1.000 ea

Accessories

Part number	Description	Multiplier
TK3600	TEFC TACH MTG.CONVERSION KIT	

DC Motor Performance Data

Record # 480

Typical performance - not guaranteed values

Winding: 36WGZ106-R001		Type: 3636D	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.885 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.698 Ω
Armature Volts	180		
Armature Amps	7.5	Shunt Winding Resistance @ 25°C	623 Ω
Field Volts	200 / 100		
Field Amps	0.25 / 0.5		
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.33 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.4	2	3.7	5.4	6.95	8.6	10.3
R.P.M.	1747	1718	1687	1660	1645	1629	1622
Torque (LB-FT)	0	1.125	2.25	3.375	4.5	5.625	6.75

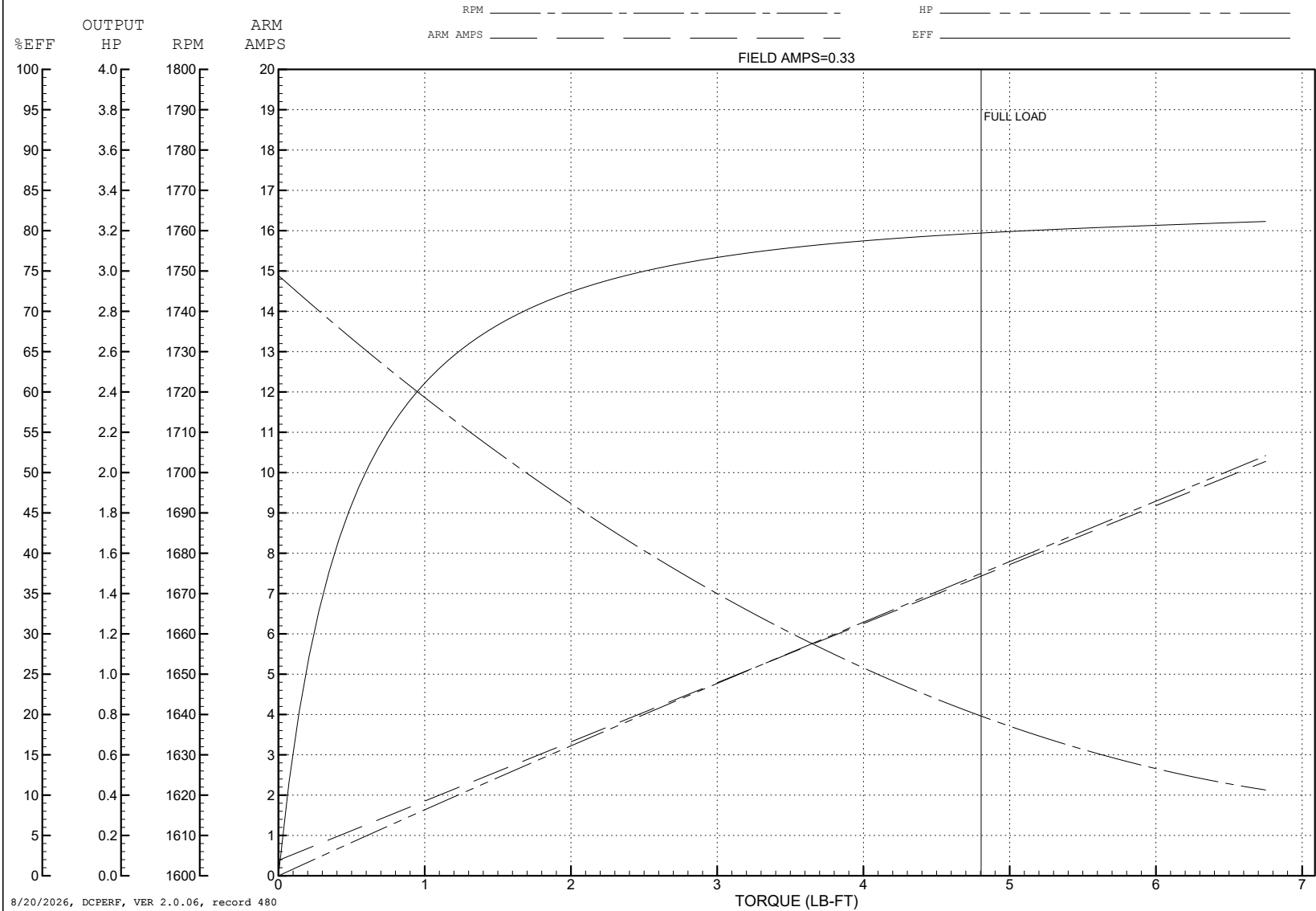
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WINDING # 36WGZ106

Typical performance - not guaranteed values.

1.5 HP DC 1750 RPM 180 V ARM 200/100 V FLD 3636D

ENCL: TEFC DUTY: CONT CL: F



DC Motor Performance Data

Record # 2092

Typical performance - not guaranteed values

Winding: 36WGZ106-R001		Type: 3636D	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	1.5	Armature Resistance @ 25°C	0.8797 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.5855 Ω
Armature Volts	180		
Armature Amps	7.5	Shunt Winding Resistance @ 25°C	311.7 Ω
Field Volts	200 / 100	Armature Inductance	13.549 mH
Field Amps	0.25 / 0.5	Armature Inertia	30.342 LI ²
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.28 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.54	2	3.55	5.23	6.61	8.27	10.48
R.P.M.	1782	1788	1777	1769	1779	1778	1779
Torque (LB-FT)	0	1.13	2.26	3.39	4.5	5.63	6.75

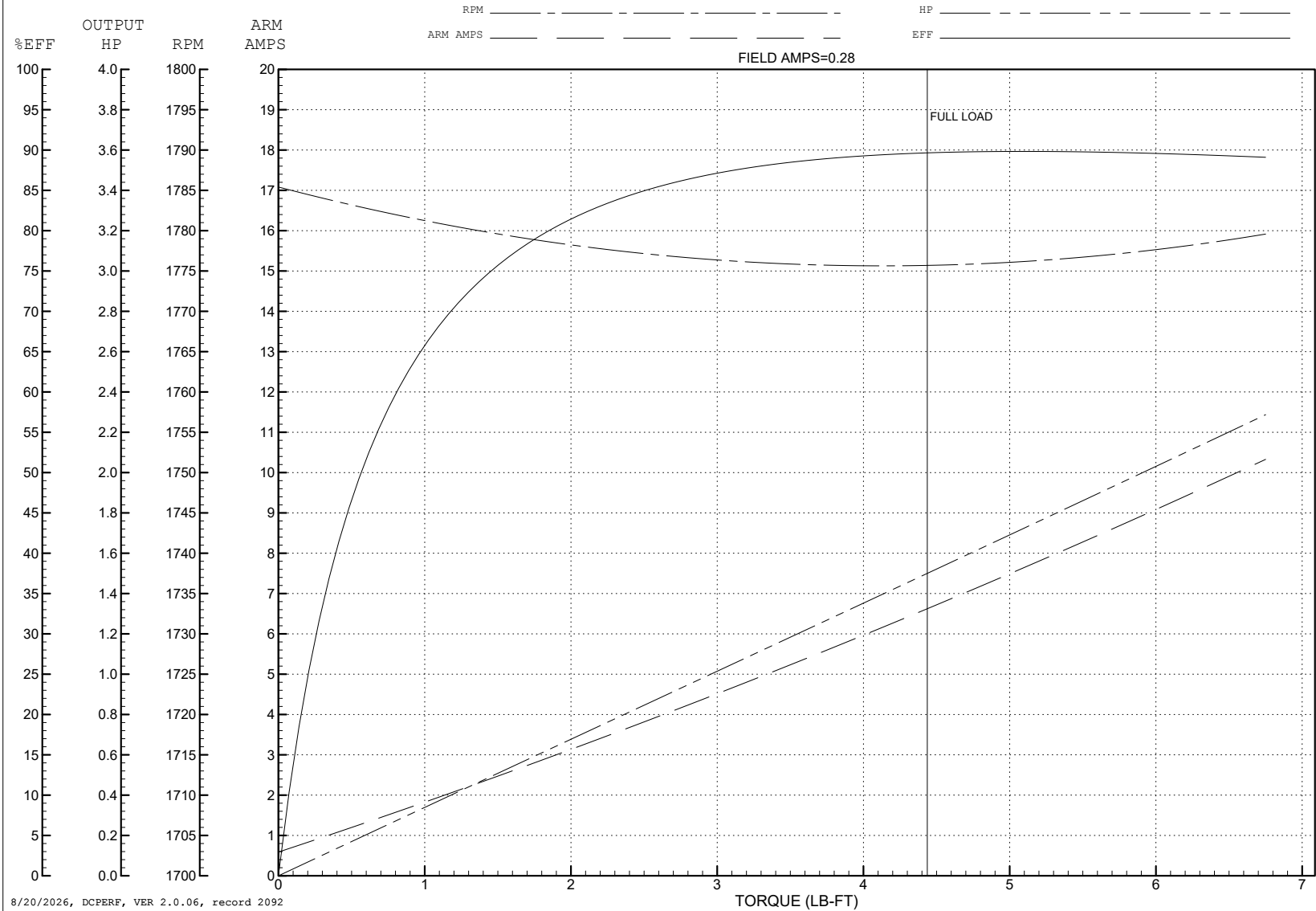
ABB Motors and Mechanical Inc.

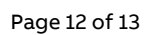
WINDING # 36WGZ106

Typical performance - not guaranteed values.

1.5 HP DC 1750 RPM 180 V ARM 200/100 V FLD 3636D

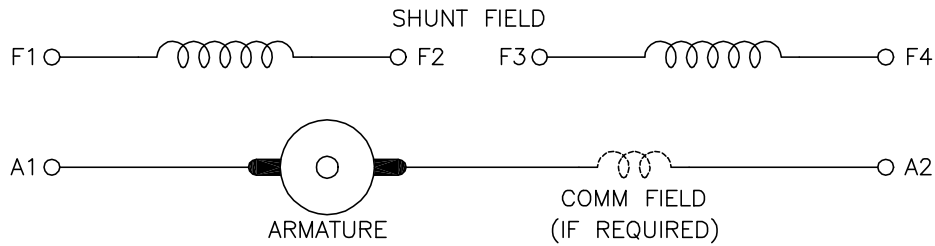
ENCL: TEFC DUTY: CONT CL: F





SHUNT WOUND

CD0860C01



CONNECTION	DIRECTION OF ROTATION			
	CWDE		CCWDE	
	POS TERM (+)	NEG TERM (-)	POS TERM (+)	NEG TERM (-)
HIGH VOLTAGE	A1	A2	A2	A1
	F1	F4	F1	F4
	CONNECT F2 & F3		CONNECT F2 & F3	
LOW VOLTAGE	A1	A2	A2	A1
	F1 & F3	F2 & F4	F1 & F3	F2 & F4

- NOTES:
- 1. LIMIT STARTING INRUSH CURRENT TO NOT MORE THAN 3 TIMES RATED AMPERES BY ENERGIZING THE FULL SHUNT FIELD BEFORE BRINGING THE ARMATURE VOLTAGE UP SLOWLY OR IN STEPS.
 - 2. OPTIONAL FIELD REOSTAT MAY BE CONNECTED IN SERIES WITH THE SHUNT FIELD.
 - 3. OPTIONAL THERMOSTAT LEADS ARE MARKED J,J.

REV. DESC: NEW, REPLACE CD0860			
REV. LTR: -	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
10C0980C0		FILE: AAA00121477	REF: CD0860C01
		MTL: -	

BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE

CD0860C01