



Customer information packet

CDP3603

3HP, 1750RPM, DC, 184TC, 3649P, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	3.000 HP
Agency Approvals	CE CSA UR WEEE
Ambient Temperature	40 °C
Armature Current	14.0 a
Armature Inertia	107.110 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
Haz Area Division	Not Applicable
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	23.33 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT

Part detail

Revision	AD
Type	DC
Mech. spec.	36P181
Base	
Status	PRD/A
Elec. spec.	36WGZ507
Layout	36LYP181
Eff. date	11-12-2024
CD Diagram	CD0194
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L				
CAT.NO.	CDP3603			
SPEC.	36P181Z507			
HP	3/KW2.2	ENCL		TEFC
RPM	1750 1/MIN IC411			
FRAME	184TC	TYPE		3649P
ARM V	180	ARM A		14
FLD V		FLD A		
INSUL	F	AMB.		40
DUTY	CONT	SUPPLY		K
BRG/DE	6206	BRG/ODE		6206
BRUSHES	2/BP5031A01			
		BLANK		IP44 KG51
SER.				
BLANK				
APRV-CE	Y	APRV-CSA	Y	APRV-UL Y

Accessories

Part number	Description	Multiplier
TK3600PM	TACHO MOUNTING KIT FOR TK3600PM	A8

DC Motor Performance Data

Record # 311

Typical performance - not guaranteed values

Winding: 36WGZ507-R001		Type: 3649P	Enclosure: TEFC	
Nameplate Data		General Characteristics		
Rated Output (HP)	3	Armature Resistance @ 25°C	0.3209 Ω	
R.P.M.	1750			
Armature Volts	180			
Armature Amps	14			
Field Volts				
Field Amps				
Rating - Duty	40C AMB-CONT			
Power Supply Code	K			

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.4	3.37	6.34	9.01	12.28	13.51	20.45
R.P.M.	1860	1844	1827	1813	1795	1788	1750
Torque (LB-FT)	0	2	4	5.8	8	8.83	13.5

ABB Motors and Mechanical Inc.

WINDING # 36WGZ507

Typical performance - not guaranteed values.

3 HP DC 1750 RPM 180 V 3649P

ENCL: TEFC DUTY: CONT CL: F





