

記事 REMARK	<h2 style="margin: 0;">PRODUCT SPECIFICATION</h2> <p style="margin: 5px 0 0 40px;">TYPE : FP8S15U-958</p>
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**1. COVERAGE**

This specification is development goals specification which applies to the Brushless DC Motor .

**2. STRUCTURE**

ITEMS	CONTENTS
MOTOR TYPE	Inner Rotor Type of Brushless DC Motor
COIL WINDING METHOD	3 Phases Coil with Star Connection
POLES NUMBER	8 Poles
SLOT NUMBER	12 Slots
ROTOR POSITION DETECTOR	Hall Elements

**3. SPECIFICATION**

ITEMS	SPECIFICATION	REMARKS
RATED VOLTAGE	AC115/AC230 [V]	50/60Hz
OPERATION VOLTAGE RANGE	AC103.5V to AC240V	
RATED ROTATIONAL SPEED	1550±20%[r/min]	Constant Speed·On Rated Voltage, Torque Range, & Output Range
RATED OPERATION DUTY	Continuous	Rated voltage
△ RATED TORQUE	0.097 [N·m]	Rated voltage
DESIGN LIFE TIME	40,000Hrs	At Ambient temperature:20℃
△ SUPPLY CURRENT RANGE	0.32/0.22 [A]	Rated voltage, Rated rotation speed, Rated toque
ROTATION DIRECTION	CCW	Opposite shaft.
INSULATION CLASS	Class A	
INSULATION RESISTANCE	Min.100 [MΩ]	DC500V megger, between case and coil
DIELECTRIC STRENGTH VOLTAGE	AC1500[V]	1 Minute
OPERATING TEMPERATURE LIMITS	-40 to +55 [℃]	Non-condensing
OPERATING HUMIDITY LIMITS	20 to 75 [%RH]	Non-condensing
STORAGE TEMPERATURE RANGE	-40 to +60 [℃]	Non-condensing
STORAGE HUMIDITY RANGE	20 to 90 [%RH]	Non-condensing
BEARING	Ball Bearing	

**4. EXTERNAL DIMENSIONS ETC.**

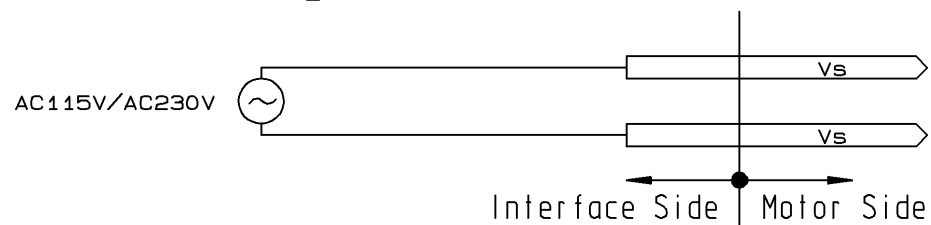
External Dimension: According to AR04814-01.  
 Mass : About 650g



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5. INTERFACE SPECIFICATION  
 Connection Diagram :



Input Output Signal :

THE TYPE OF PLUG	SYMBOL NAME	INPUT VOLTAGE	FUNCTION
ST0-21T-250N	Vs	AC103.5V~AC240V	POWER INPUT
	Vs	AC103.5V~AC240V	POWER INPUT

6. Over temperature detection ⚠

When the motor temperature of the IPM sensor is higher than OTP 140℃, the overtemperature detection will work.  
 The motor dose not rotation in the state in which this detection working when the motor is in rotation at that time, it will stop as free state immediately  
 When the motor is rotating and the temperature of the IPM sensor in higher than OT-lim 125℃ ,the current of the motor is halved and the speed decreases.  
 The over temperature detection is released when the motor temperature of the IPM sensor becomes lower than 85℃.

7. ENVIRONMENTAL CORRESPONDANCE

**本製品はEU RoHS指令に適合した部品で構成する。**  
 This product is composed of parts that suit the EU RoHS instruction.

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Revision symbol	APPROVED	CHECKED	DESIGNED	Revision date	Design Change Notifivation No.	Object range		Revision contents
						Clause No.	Page	
-	T.Okabe	R.Mao	L.Zhuang	19-01-23				New making
A	T.Okabe	R.Mao	L.Zhuang	19-03-13	19-0327	3	1	Changed Supply Current Range Changed Rated Torque
B	T.Okabe	R. Mao	Y.Feng	20-02-21	20-0206	6	2	Add Over temperature detection

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