

## 1. MECHANICAL:

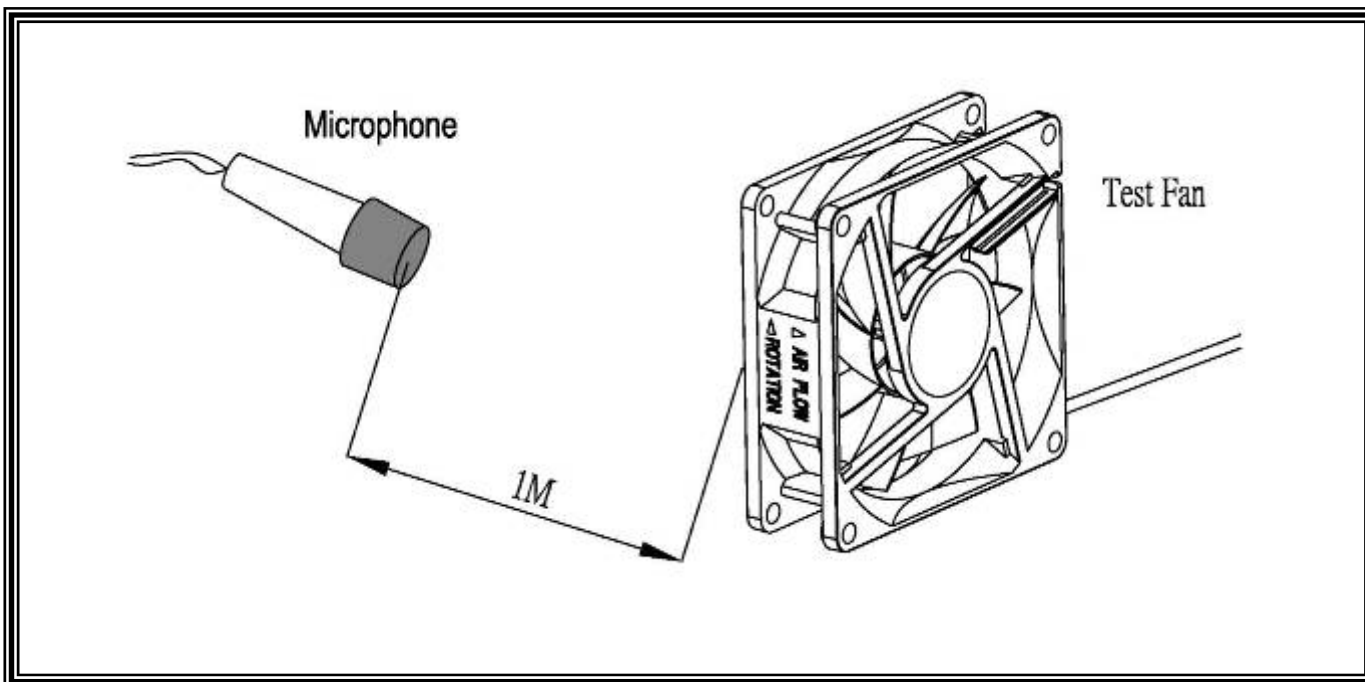
1-01	Dimension	Dimension of fan shall be shown in the outline styling drawing attached.
1-02	Motor	Four-pole motor.
1-03	Frame	Plastic material UL 94V-0 (P.B.T).
1-04	Impeller	Plastic material UL 94V-0 (P.B.T).
1-05	Free drop shock	In minute package condition, the fan should withstand each one drop of three faces from 30cm distance height onto 10 mm thickness of wooden board.

## 2.ELECTRICAL:

2-01	Rated current	Rated current shall be measured after 30 minutes continuous rotation at rated voltage.
2-02	Start voltage	The voltage that enable to start the fan by sudden switch on.
2-03	Rated Speed	Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.
2-04	Input Power	Input power shall be measured after 30 minutes continuous rotation at rated voltage.
2-05	Lock Current	Locked current shall be measured Within one minute at rotor locked, after 30 minutes continuous rotation at rated voltage in clear air.
2-06	Insulation resistance	More than 10M ohm at 500 V.D.C between lead and housing.
2-07	Dielectric strength	Measured 5 mA(max) trip current at 700 V.A.C for 3 sec. between lead and housing.
2-08	Locked motor protection	Designed to meet UL, CUL and TUV.

### 3.CHARACTERISTICS:

3-01	Air Flow & Static Pressure	The air flow data and static pressures should be determined in accordance with AMCA standard or DIM 24163 specification in a double- chamber testing with intake-side measurement.
3-02	Noise level	The measurement of noise level is carried out with reference to DIM 45635 in an echoic chamber with the microphone positioned 1 M from the air intake. Testing fan shall be hung in clean air.



### 4.ENVIRONMENTAL:

4-01	Operating temperature	-10°C to 70°C (ordinary humidity)
4-02	Storage Temperature	-40°C to 70°C (ordinary humidity)
4-03	Humidity	After 96 hrs, 95% RH 40±2°C per MIL-STD-202F method 103B, Humidity test , The measured data of insulation resistance & dielectric strength should meet the specification listed in attach.
4-04	Thermal Shock	After thermal shock test per MIL-STD-202F method 107D, Condition D, The measured data of insulation resistance & dielectric strength should the specification

## 5.DATA-SHEET:

NO.	ITEM	SPECIFICATION	UNIT	CONDITION
5-1-01	Dimension	80*80*25	mm	-----
5-1-02	Bearing	DUAL BALL	-----	-----
5-1-03	Rated Voltage	24	VDC	-----
5-1-04	Operating Voltage	12.0 ~ 27.6	VDC	-----
5-1-05	Start Voltage	12.0	VDC	On/off test
5-1-06	Speed	4000	R.P.M	±10%, At rated Voltage
5-1-07	Input Current	0.21	Amp	At rated Voltage
5-1-08	Input Power	5.04	Watt	At rated Voltage
5-1-09	Nominal Current	0.21	Amp	At rated Voltage
5-1-10	Air Flow	52.90	CFM	At 0 static Pressure of rated speed
5-1-11	Static Pressure	0.230	inchH <sub>2</sub> O	At 0 air flow of rated speed
5-1-12	Noise	40.8	dBA	At rated speed
5-1-13	Life ExpectancyL(10)	70,000	Hours	At 40°C
5-1-14	Motor protection	Electronic protected		
5-1-15	Polarity protection	It will not damage the fan while reverse input.		
5-1-16	Auto Restart	YES	-----	-----
5-1-17	Speed Signal output	NO	-----	-----
5-1-18	Alarm Signal output	NO	-----	-----
5-1-19	Rotation direction	From the label side	-----	Clockwise
5-1-20	Weight	70	Gram	Per each piece
5-1-21	Safety Certificate	CE	-----	-----

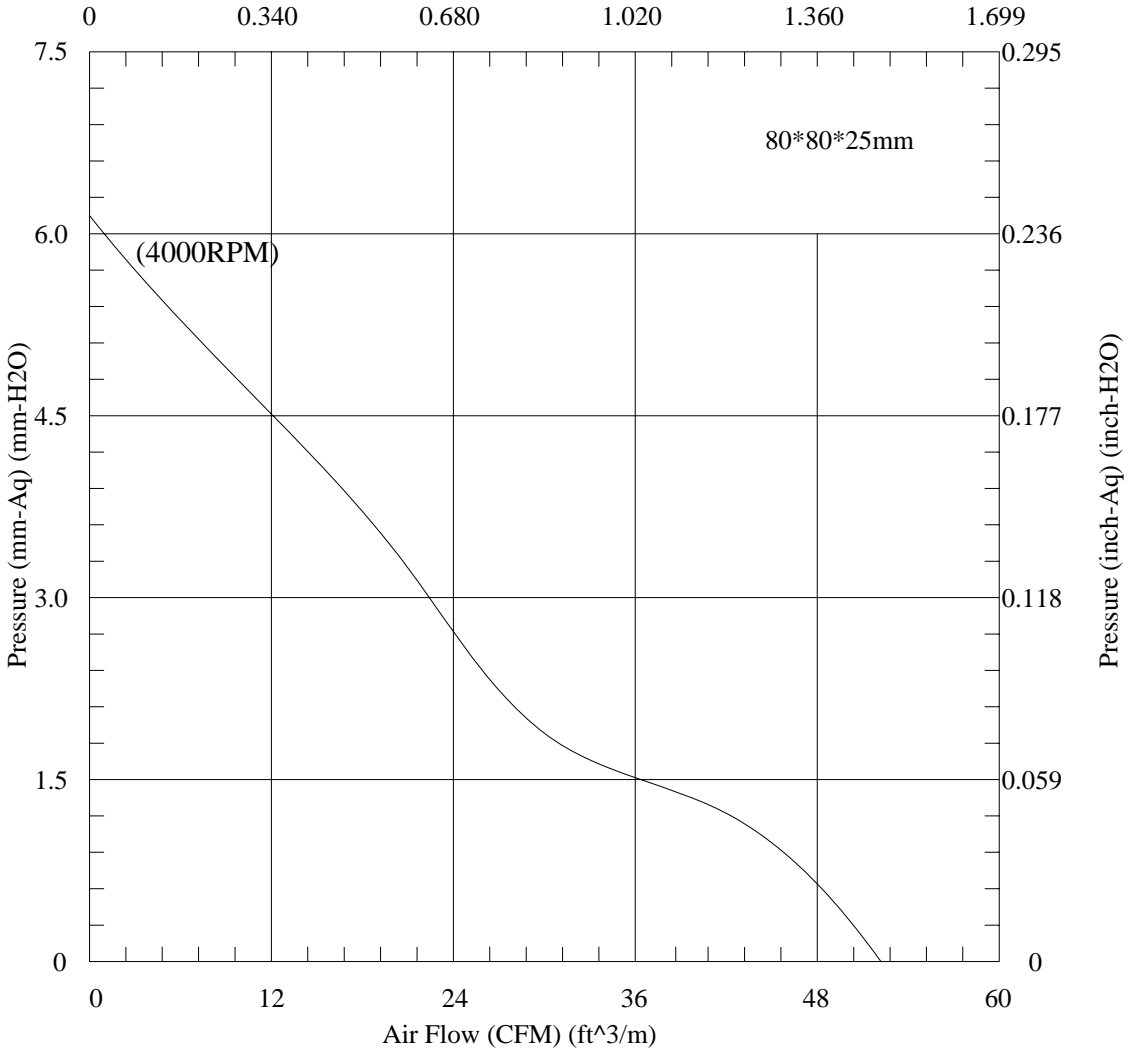
## 5-2. LEAD WIRE:

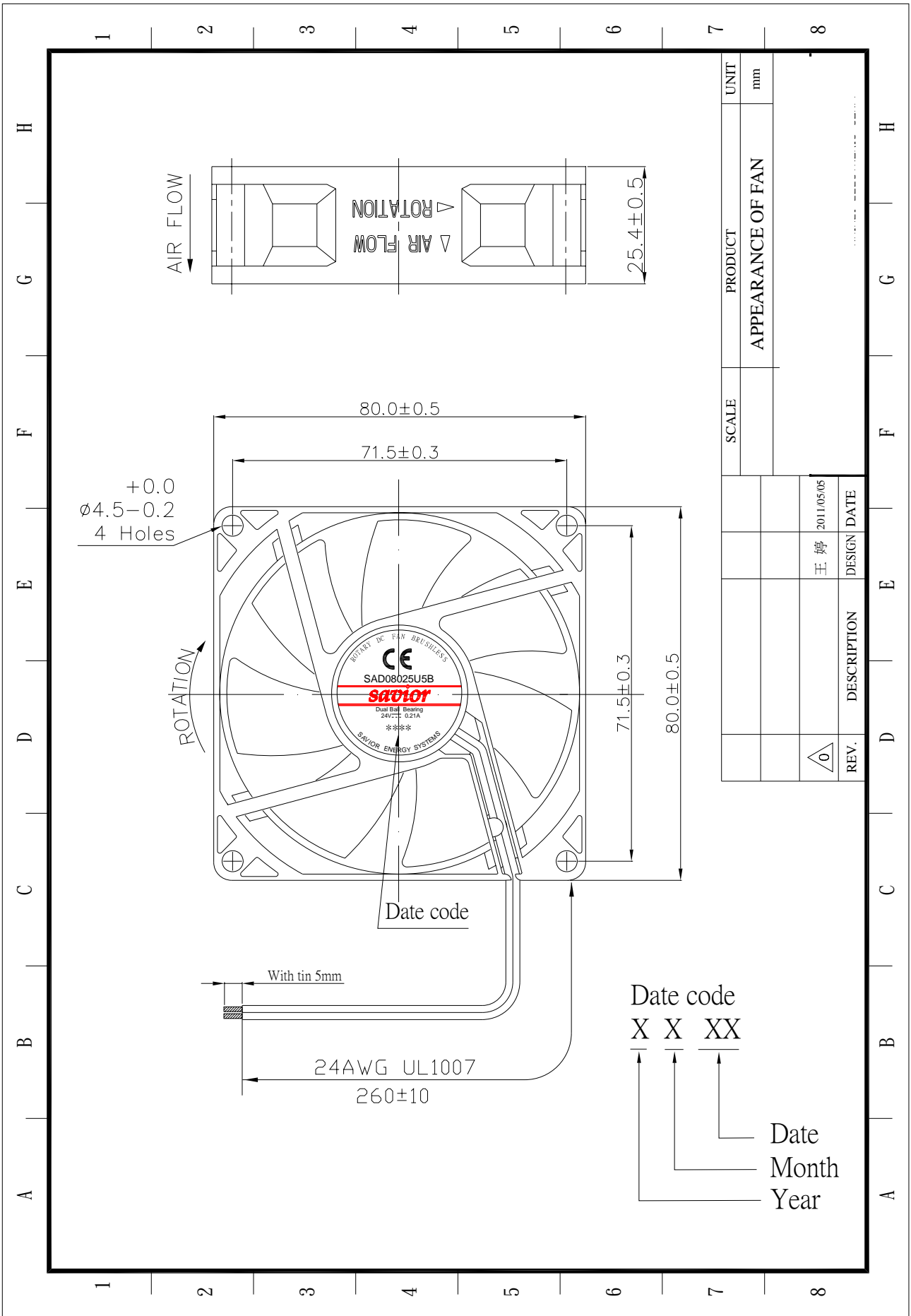
NO.	ITEM	SPECIFICATION			
5-2-01	AWG NO. & Authorize	24AWG, UL1007(The end of wire with tin as drawing)			
5-2-02	Color	=	+		
		Black	Red		
5-2-03	Line Length	260±10 mm			
5-2-04	Connector	Notes as: Not available			
5-2-05	Tube	NO			

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# FAN PERFORMANCE CURVES

Air Flow (CMM) (M<sup>3</sup>/m)



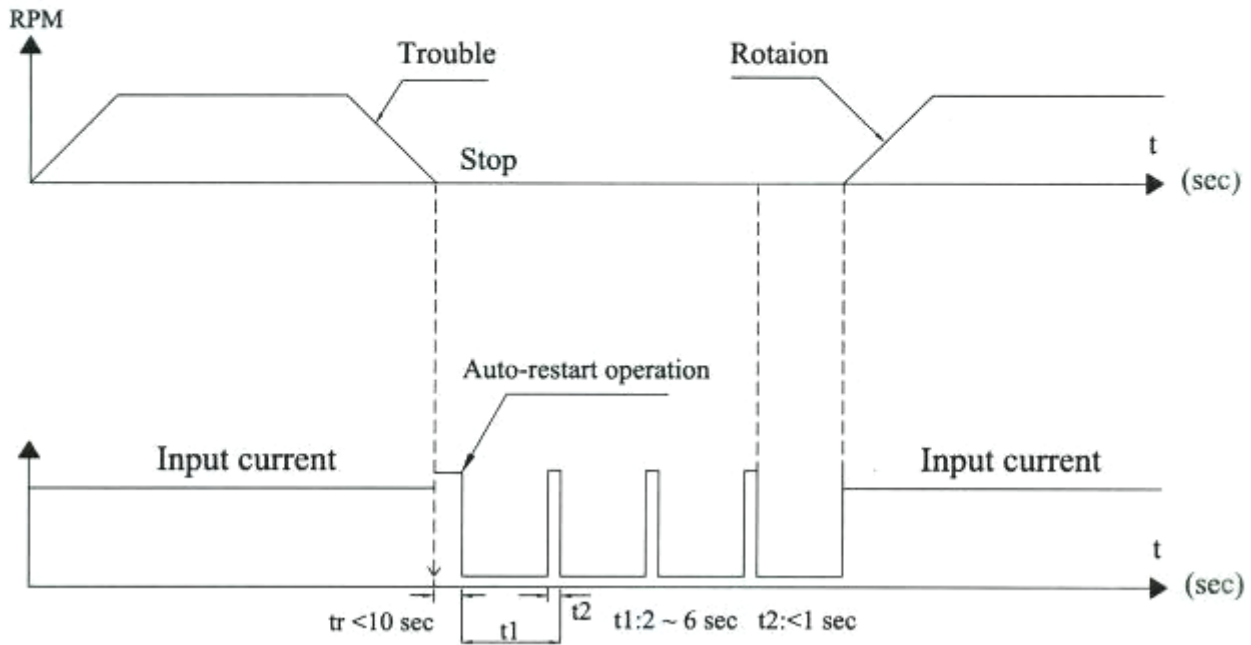


SCALE	PRODUCT	UNIT
	APPEARANCE OF FAN	mm
REV. 0	DESCRIPTION	DESIGN DATE
		王婷 2011/05/05

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# Auto-restart

Fan motor speed



# CE

**SPORTON LAB.**

Certificate No.:

EC2D2008-05

# CERTIFICATE

- **EQUIPMENT:** Fan with DC motor  
**MODEL NO. :** SADx1x2x3x4x5, SADx1x2x3x4x5-1  
**APPLICANT :** Savior Kontrol Otomasyon Sistemleri Elektronik  
**Sanayi ve Ticaret A.S.**  
Des Sanayi Sitesi. 104. Sok. A07 Blok, No:2  
Y. Dudullu, Istanbul - TURKEY



**I HEREBY**

**CERTIFY THAT:**

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN ACCORDANCE WITH THE PROCEDURES GIVEN IN **EUROPEAN COUNCIL DIRECTIVE 2004/108/EC**. THE EQUIPMENT WAS **PASSED** THE TEST PERFORMED ACCORDING TO **European Standard EN 55022:2006 Class B, EN 61000-3-2:2006, EN 61000-3-3:1995/A1:2001/A2:2005 and EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000, IEC 61000-4-3:2006, IEC 61000-4-4:2004, IEC 61000-4-5:2005, IEC 61000-4-6:2006, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:2004 )**. THE TEST WAS CARRIED OUT ON **May 28, 2008 AT SPORTON INTERNATIONAL INC. LAB.**

A handwritten signature in blue ink, appearing to read 'Castries Huang', is written over a horizontal line.

Castries Huang

Supervisor

Certificate No: EC2D2008-05

ACCORDING TO European Standard EN 55022:2006 Class B,  
EN 61000-3-2:2006, EN 61000-3-3:1995/A1:2001/A2:2005 and  
EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000,  
IEC 61000-4-3:2006, IEC 61000-4-4:2004, IEC 61000-4-5:2005,  
IEC 61000-4-6:2006, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:2004 ).

More detail information of Model No.:

SADx1x2x3x4x5 or SADx1x2x3x4x5-1

x1 ( Diameter / Width (mm))

025 = 25x25mm  
030 = 30x30mm  
040 = 40x40mm  
050 = 50x50mm  
060 = 60x60mm  
070 = 70x70mm  
080 = 80x80mm  
092 = 92x92mm  
020 = 20x20mm  
035 = 35x35mm  
045 = 45x45 mm  
120 = 120x120mm  
172 = Ø172 or 172x150mm

x2 (Thicknes (mm))

06 = 6mm  
07 = 7mm  
09 = 9mm  
10 = 10mm  
12 = 12mm  
15 = 15mm  
20 = 20mm  
25 = 25 or 25.4mm  
32 = 32mm  
38 = 38mm  
51 = 51mm

x3 (Speed)

T or 7 means speed higher than U or 6 speed code.  
U or 6 means speed higher than S or 5 speed code.  
S or 5 means speed higher than H or 4 speed code.  
H or 4 means Standard-higher speed code  
M or 3 means Middle speed code  
L or 2 means Low speed code  
E or 1 means speed Lower than L speed code  
V or 0 means speed Lower than E speed code

x4 (Voltage)

3 = 5V  
4 = 12V  
5 = 24V  
6 = 48V

x5 (Bearing)

B = Dual Ball  
S = Sleeve  
C = Ball + Sleeve  
H = HTLS