

# Stepper Motor Ordering Information

## O Series (CE(LVD), UL (pending))

The O Series Size 23 Frame motors with A Winding (75VDC) are designed for use with the Gemini GT-U5, Gemini GT-U8, OEM750 Series, OEM230/330/530 Series, and the SD Series. The O Series Size 23 Frame motors with B Winding (170VDC) are designed for use with the Gemini GT-L5, Gemini GT-L8, ZETA Series, ZETA-240 Series (@120VAC), S Series, PD Series.

Series O (Octagonal)	Type S=Standard	Frame Size 2=Size 23 (2.5")	No. of Rotor Stacks H=Half stacks 1=1 stack 2=2 stacks	Winding Type A=75VDC winding (Gray painted motors) B=170VDC winding (Black painted motors)	Shaft S=Single D=Double Double shaft req'd for all motors w/encoders	Shaft Modification N=Standard smooth F=Flat (.02" depth) (0.5" length)	Motor Construction/ Hookup FLY=Regular construction with flying (8) leads, 12" L10= Regular construction with 10' LVD cable	Encoder Option Blank=No feedback (no dash required) HJ=512 ppr single-ended kit encoder w/12" flying leads (only available on A winding motors) RE=1000 ppr differential kit encoder w/ line driver & 13' braided shield cable (w/ FLY only) RC=1000 ppr differential kit encoder w/ line driver & 10' cable
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### O Series Part Number Example:

OS2 \_ \_ \_ - \_ \_ \_ \_ - \_ \_  
 OS2HA-SNFLY  
 OS22B-DNL10-RC

## R Series (CE(LVD), CE(EMC)\*, UL recognized)

The R Series Size 34 and Size 42 Frame motors are available in a B Winding (170VDC) and a C Winding (340VDC). Motors with the B Winding are recommended for use with Gemini GT-L5, Gemini GT-L8, the ZETA Series, ZETA240 Series (@120VAC), PD Series, S Series. Motors with the C Winding are recommended for use with the ZETA4-240 (@240VAC).

Series R (Round)	Type S=Standard E=Enhanced (RE 42 only)	Frame Size 3=Size 34 (3.38") 4=Size 42 (4.33")	No. of Rotor Stacks 1=1 stack (34 Frame Only) 2=2 stacks 3=3 stacks	Winding Type B=170VDC winding (Black painted motors) C=340VDC winding (Yellow painted motors)	Shaft S=Single D=Double (Double shaft req'd for all motors w/ encoders)	Shaft Modification N=None (34 Frame only) K=Straight Key (Standard on 42 Frame) F=Flat (34 Frame only, 0.02" depth, 0.5" length)	Motor Construction/ Hookup NPS=End bell/terminal board via 1/2" NPS Pipe thread S10=CE (LVD)/UL, 10' cable option for NPS construction, wired @ motor in Parallel. P10=CE (LVD)/UL, 10' cable option for NPS construction, wired @ motor in Series.	Encoder Option Blank=No feedback (No Dash Required) EC=1000 ppr differential encoder with line driver and 10' cable (-E Series)
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### R Series Part Number Example:

R \_ \_ \_ \_ - \_ \_ \_ \_ - \_ \_  
 RS32B-SNS10  
 RE42C-SKNPS  
 RS42B-DKS10-EC

## T Series (CE(LVD), CE(EMC)\*, UL recognized)

The T Series Size 34 and Size 42 Frame motors are available in a B Winding (170VDC). These motors are designed for use with the Gemini GT-L5, Gemini GT-L8, the ZETA Series, ZETA4-240 (@120VAC), PD Series, S Series.

Series T (Torque)	Type S=Standard	Frame Size 3=Size 34 (3.38") 4=Size 42 (4.33")	No. of Rotor Stacks 1=1 stack 2=2 stacks 3=3 stacks	Winding Type B=170VDC winding (Black painted motors)	Shaft S=Single D=Double (Double shaft req'd for all motors w/ encoders)	Shaft Modification K=Straight Key (Standard on all T Series Motors)	Motor Construction/ Hookup NPS=End bell/terminal board via 1/2" NPS Pipe thread, no cable S10=CE (LVD)/UL, 10' cable option for NPS construction, wired @ motor in Series P10=CE (LVD)/UL, 10' cable option for NPS construction, wired @ motor in Parallel.	Encoder Option Blank=No feedback (No Dash Required) EC=1000 ppr differential encoder with line driver and 10-ft cable (-E Series)
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### T Series Part Number Example:

TS \_ \_ B - \_ \_ K \_ \_ \_ \_ - \_ \_  
 TS31B-SKNPS  
 TS43B-DKS10

## E Series (also known as ZETA Series)

The E Series Size 23 and Size 34 Frame motors are available in a B Winding (170VDC). These motors are designed for use with Gemini GT-L5, Gemini GT-L8, the ZETA Series, ZETA4-240 (@120VAC), PD Series, S Series.

Series E (Extra Smooth)	Type S=Standard	Frame Size 2=Size 23 (2.5") 3=Size 34 (3.38")	No. of Rotor Stacks 1= 1 stack 2= 2 stacks 3= 3 stacks	Winding Type B=170VDC winding (Black painted motors)	Shaft S=Single D=Double Double shaft req'd for all motors w/encoders	Shaft Modification N=None (Standard) F=Flat (.02" depth) (0.5" length) K=Straight Key (34 Frame Only)	Motor Construction/ Hookup R10=Regular hookup w/ 10' Flying Leads	Encoder Option Blank=No feedback (no dash required) EC=1000 ppr differential line encoder w/ 10' cable
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### E Series Part Number Example

ES \_ \_ B - \_ \_ K \_ \_ \_ \_ - \_ \_  
 ES31B-SKNPS  
 ES43B-DKS10

\* EMC is a system compliance. Refer to page 67 for system compliance components.