



DK Series Permanent Magnet Parallel Shaft Gearmotors

Motors are available in 12 & 90 VDC.
Power 1/30 HP.

Specifications

Gearhead	Motor	Features
<ul style="list-style-type: none"> ■ Gearcase : die-cast zinc ■ Lubrication : grease ■ Gears : heat-treated steel ■ Shafts : heat-treated steel ■ Mounting : all-position 	<ul style="list-style-type: none"> ■ Rotation : reversible ■ Brushes : externally replaceable ■ Ambient : 40 °C ■ Thermal protection : none ■ Recognized : cRUus 	<ul style="list-style-type: none"> ■ High torque ■ High overhang load ■ Long MTBF ■ Quiet operation ■ Totally enclosed nonventilated

Part Number	Voltage DC	Nameplate RPM	Full load Torque (in.-lb.)	Overhung Load(lb.)	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft(in.)	Tech. Data
DK4A430D	12	6	50	50	1/30	430 : 1	3.1	6 1/6	PDF 2D 3D
DK4A279D	12	9	50	50	1/30	279 : 1	3.1	6 1/6	PDF 2D 3D
DK4A144D	12	18	50	50	1/30	144 : 1	3.1	6 1/6	PDF 2D 3D
DK4A103D	12	25	40	50	1/30	103 : 1	3.1	6 1/6	PDF 2D 3D
DK4A64D	12	41	26	50	1/30	64 : 1	3.1	6 1/6	PDF 2D 3D
DK4A32D	12	80	13	50	1/30	32 : 1	3.1	6 1/6	PDF 2D 3D
DK4E430D	90	7	50	50	1/30	430 : 1	0.4	6 1/6	PDF 2D 3D
DK4E279D	90	11	50	50	1/30	279 : 1	0.4	6 1/6	PDF 2D 3D
DK4E144D	90	21	50	50	1/30	144 : 1	0.4	6 1/6	PDF 2D 3D
DK4E103D	90	29	40	50	1/30	103 : 1	0.4	6 1/6	PDF 2D 3D
DK4E64D	90	47	26	50	1/30	64 : 1	0.4	6 1/6	PDF 2D 3D
DK4E32D	90	93	13	50	1/30	32 : 1	0.4	6 1/6	PDF 2D 3D

Replaceable Brushes

Part Number	Voltage	Applicable Models					
S6AT	12 VDC	DK4A430D	DK4A279D	DK4A144D	DK4A103D	DK4A64D	DK4A32D
S6CT	90 VDC	DK4E430D	DK4E279D	DK4E144D	DK4E103D	DK4E64D	DK4E32D



DK Series Cross Reference

	SPG	Dayton	Bison	RPM	Full Load Torq(in.lb)	Gear Ratio	Length Less Shaft(In.)
12 VDC 1/30 HP	DK4A430D	1LPV8	011Q507-0482	6	50	430 : 1	6 1/6
	DK4A279D	1LPV7	011Q507-0314	9	50	279 : 1	6 1/6
	DK4A144D	1LPV6	011Q507-0161	18	50	144 : 1	6 1/6
	DK4A103D	1LPV5	011Q507-0098	25	40	103 : 1	6 1/6
	DK4A64D	1LPV4	011Q507-0063	41	26	64 : 1	6 1/6
	DK4A32D	1LPV3	011Q507-0031	80	13	32 : 1	6 1/6
90 VDC 1/30 HP	DK4E430D	1LPV9	011Q527-0482	7	50	430 : 1	6 1/6
	DK4E279D	1LPW1	011Q527-0314	11	50	279 : 1	6 1/6
	DK4E144D	1LPW2	011Q527-0161	21	50	144 : 1	6 1/6
	DK4E103D	1LPW3	011Q527-0098	29	40	103 : 1	6 1/6
	DK4E64D	1LPW4	011Q527-0063	47	26	64 : 1	6 1/6
	DK4E32D	1LPW5	011Q527-0031	93	13	32 : 1	6 1/6

Part Number	DK4A430D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

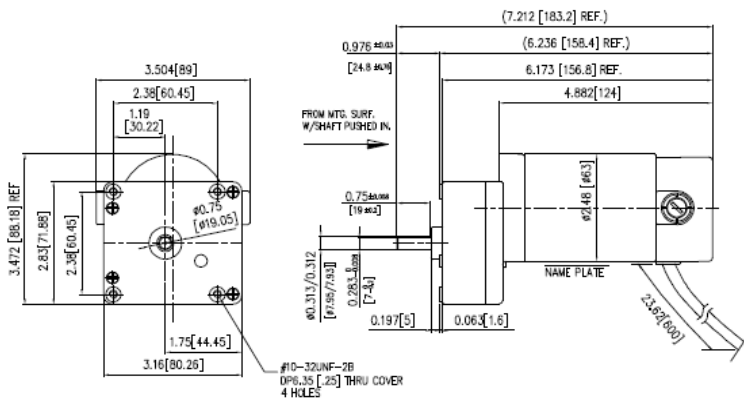


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 12 VDC
- Nameplate RPM : 6.0
- Full Load Torque (in.-lbs.) : 50
- Input HP : 1/30
- Gear Ratio : 430:1
- Full Load Amps : 3.1
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6AT

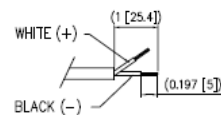
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6AT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

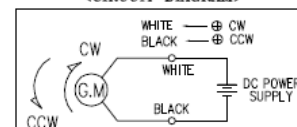


NOTE

1. TYPE : DC GEARED MOTOR ASS'Y
2. GEAR BOX END PLAY : 0.0196 inch [0.5 mm] Max.
3. UNIT : inch [mm] = 1 inch [25.4 mm]



<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4A279D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

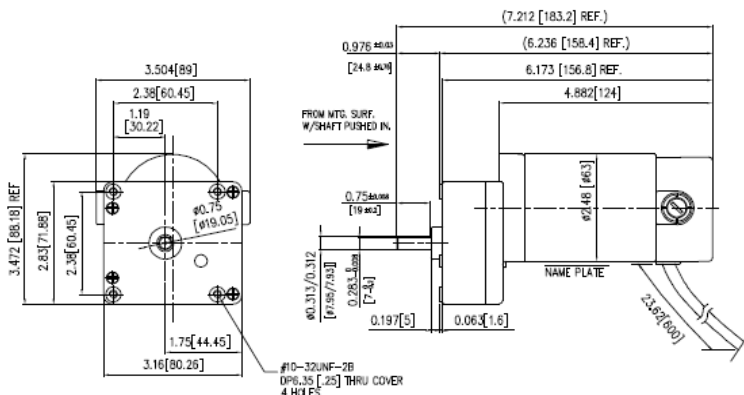


Tech Specs

Item : DC Gearmotor
 Type : Parallel Shaft
 Voltage Rating : 12 VDC
 Nameplate RPM : 9.0
 Full Load Torque (in.-lbs.) : 50
 Input HP : 1/30
 Gear Ratio : 279:1
 Full Load Amps : 3.1
 Insulation Class : B
 Thermal Protection : None
 Ambient (C) : 40
 Rotation : Reversible
 Mounting : All Position
 Length Less Shaft(in.) : 6-1/6
 Shaft Dimensions (in.) : 5/16 x 3/4
 Keyway (in.) : Flat
 Bearings : Needle on case, ball on motor
 Lubrication : Grease
 Brushes : Externally Replaceable
 Housing : Al Die Cast
 Case : Zinc Die Cast
 Gears : heat-treated steel
 Agency Compliance : cRUus
 Replacment Brushes : S6AT

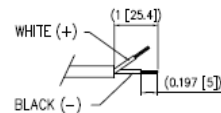
Replaceable Brushes

Motor Brush Set : 2 Brushes, 2 Caps
 Item # : S6AT
 Brand : SPG
 Usually Ships : Ready to Ship
 Price (ea) : \$

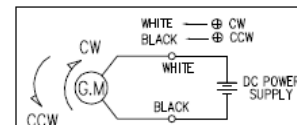


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<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4A144D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

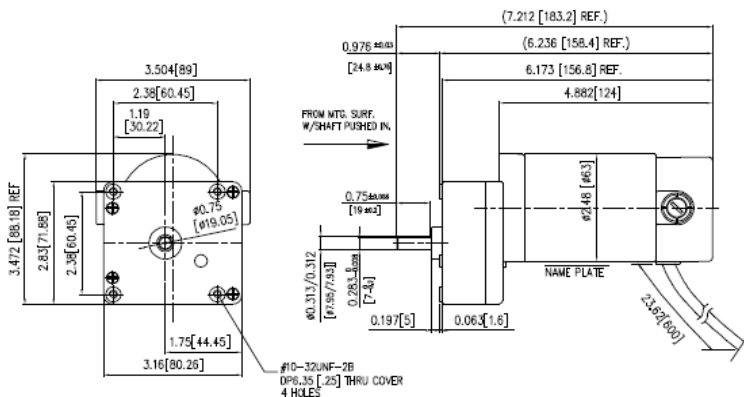


Tech Specs

Item : DC Gearmotor
 Type : Parallel Shaft
 Voltage Rating : 12 VDC
 Nameplate RPM : 18.0
 Full Load Torque (in.-lbs.) : 50
 Input HP : 1/30
 Gear Ratio : 144:1
 Full Load Amps : 3.1
 Insulation Class : B
 Thermal Protection : None
 Ambient (C) : 40
 Rotation : Reversible
 Mounting : All Position
 Length Less Shaft(in.) : 6-1/6
 Shaft Dimensions (in.) : 5/16 x 3/4
 Keyway (in.) : Flat
 Bearings : Needle on case, ball on motor
 Lubrication : Grease
 Brushes : Externally Replaceable
 Housing : Al Die Cast
 Case : Zinc Die Cast
 Gears : heat-treated steel
 Agency Compliance : cRUus
 Replacment Brushes : S6AT

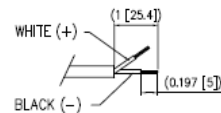
Replaceable Brushes

Motor Brush Set : 2 Brushes, 2 Caps
 Item # : S6AT
 Brand : SPG
 Usually Ships : Ready to Ship
 Price (ea) : \$

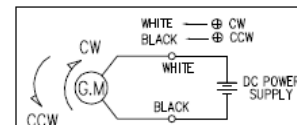


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<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4A103D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

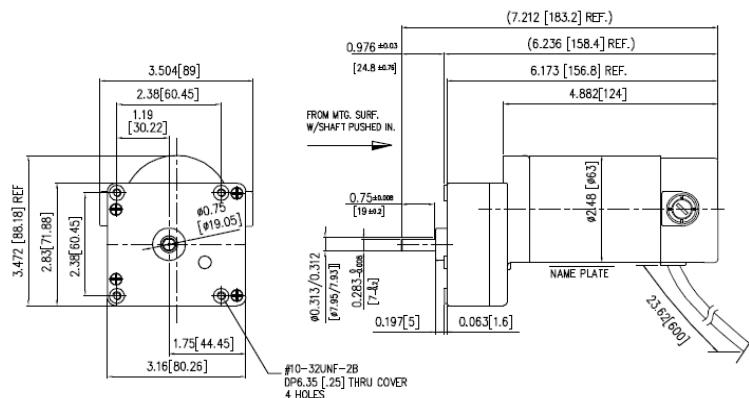


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 12 VDC
- Nameplate RPM : 25.0
- Full Load Torque (in.-lbs.) : 40
- Input HP : 1/30
- Gear Ratio : 103:1
- Full Load Amps : 3.1
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6AT

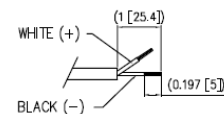
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6AT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

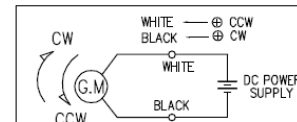


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<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4A64D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

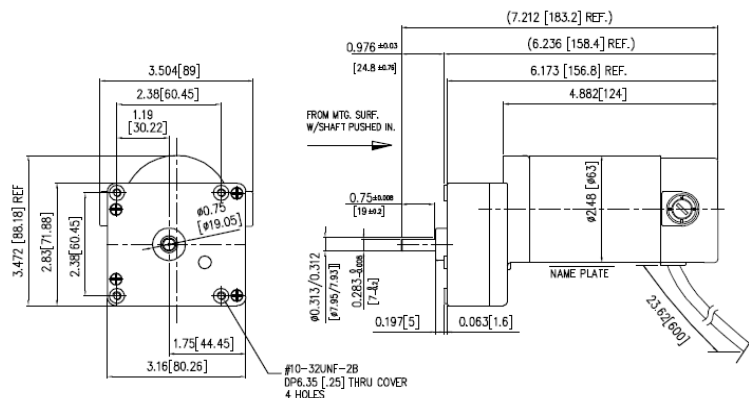


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 12 VDC
- Nameplate RPM : 41.0
- Full Load Torque (in.-lbs.) : 26
- Input HP : 1/30
- Gear Ratio : 64:1
- Full Load Amps : 3.1
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6AT

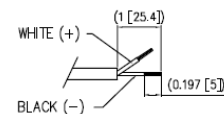
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6AT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

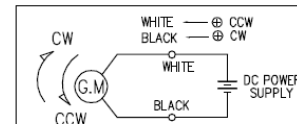


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<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4A32D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

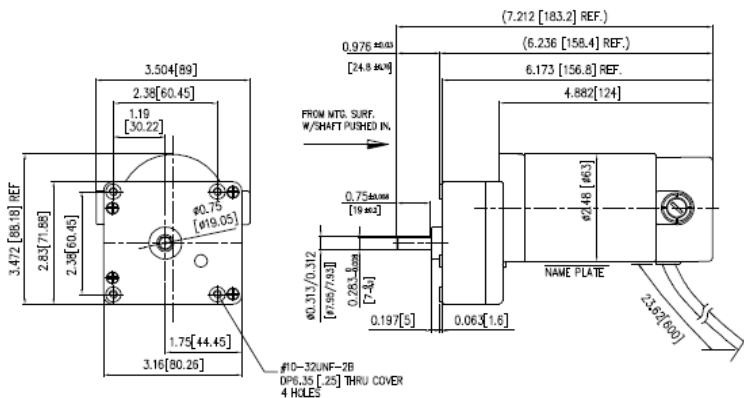


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 12 VDC
- Nameplate RPM : 80
- Full Load Torque (in.-lbs.) : 13
- Input HP : 1/30
- Gear Ratio : 32:1
- Full Load Amps : 3.1
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6AT

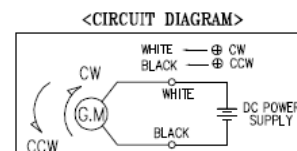
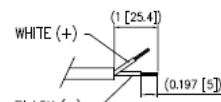
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6AT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$



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Part Number	DK4E430D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

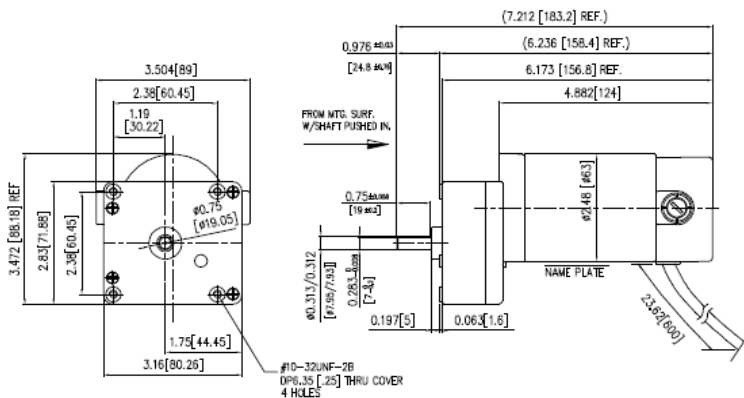


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 7.0
- Full Load Torque (in.-lbs.) : 50
- Input HP : 1/30
- Gear Ratio : 430:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

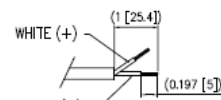
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

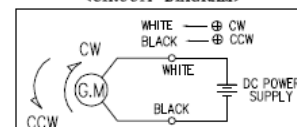


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(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4E279D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

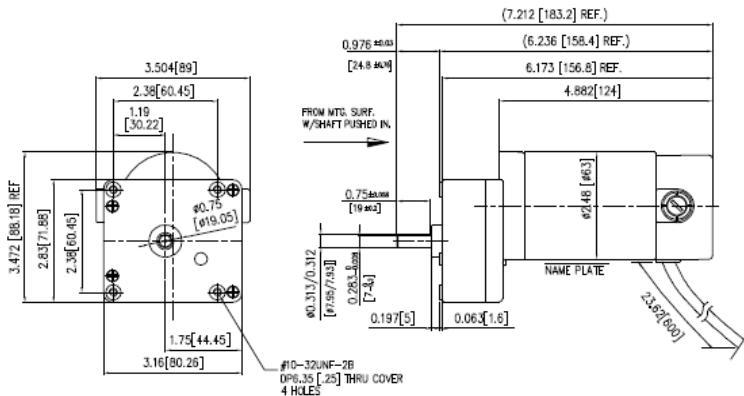


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 11.0
- Full Load Torque (in.-lbs.) : 50
- Input HP : 1/30
- Gear Ratio : 279:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

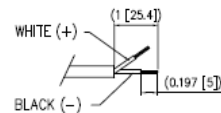
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

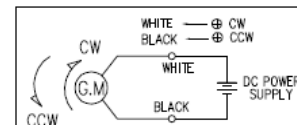


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<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4E144D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

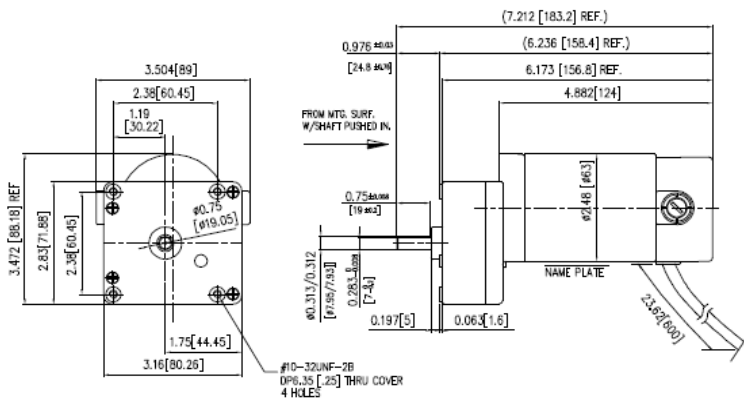


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 21.0
- Full Load Torque (in.-lbs.) : 50
- Input HP : 1/30
- Gear Ratio : 144:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

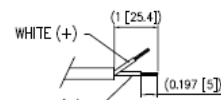
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

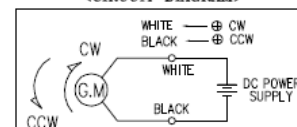


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(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4E103D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

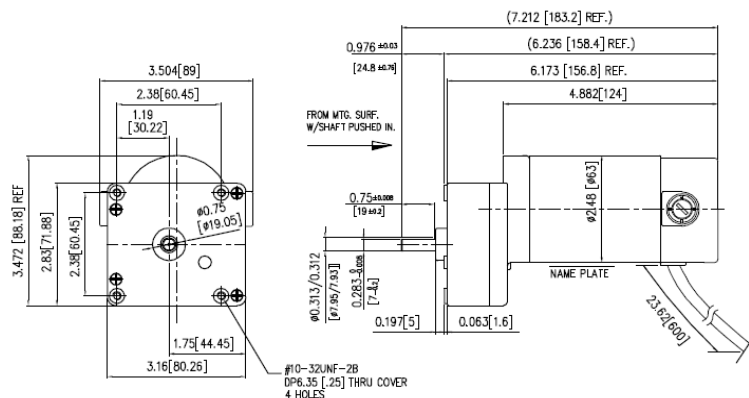


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 29.0
- Full Load Torque (in.-lbs.) : 40
- Input HP : 1/30
- Gear Ratio : 103:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

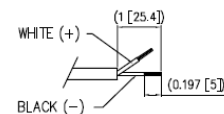
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

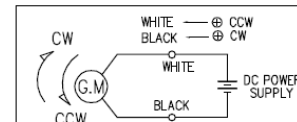


NOTE

1. TYPE : DC GEARED MOTOR ASS'Y
2. GEAR BOX END PLAY : 0.0196 inch [0.5 mm] Max.
3. UNIT : inch [mm] = 1 inch [25.4 mm]



<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4E64D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

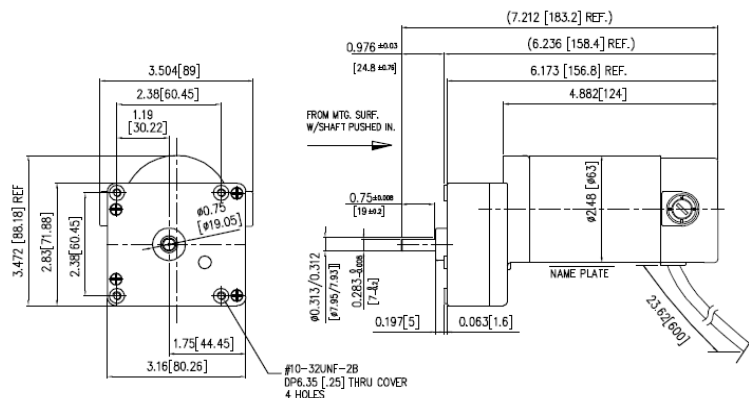


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 47.0
- Full Load Torque (in.-lbs.) : 26
- Input HP : 1/30
- Gear Ratio : 64:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

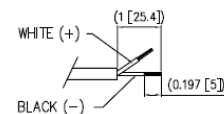
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

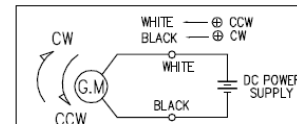


NOTE

1. TYPE : DC GEARED MOTOR ASS'Y
2. GEAR BOX END PLAY : 0.0196 inch [0.5 mm] Max.
3. UNIT : inch [mm] = 1 inch [25.4 mm]



<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

Part Number	DK4E32D
Price (ea)	\$
Brand	SPG
Ship Qty.	1
Ship Weight (lbs.)	5.0
Availability	Ready to Ship

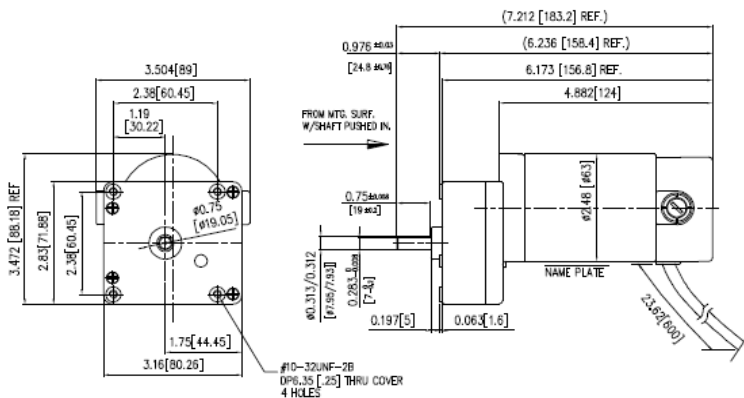


Tech Specs

- Item : DC Gearmotor
- Type : Parallel Shaft
- Voltage Rating : 90 VDC
- Nameplate RPM : 93
- Full Load Torque (in.-lbs.) : 13
- Input HP : 1/30
- Gear Ratio : 32:1
- Full Load Amps : 0.4
- Insulation Class : B
- Thermal Protection : None
- Ambient (C) : 40
- Ratation : Reversible
- Mounting : All Position
- Length Less Shaft(in.) : 6-1/6
- Shaft Dimensions (in.) : 5/16 x 3/4
- Keyway (in.) : Flat
- Bearings : Needle on case, ball on motor
- Lubrication : Grease
- Brushes : Externally Replaceable
- Housing : Al Die Cast
- Case : Zinc Die Cast
- Gears : heat-treated steel
- Agency Compliance : cRUus
- Replacment Brushes : S6CT

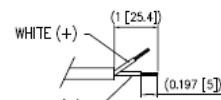
Replaceable Brushes

- Motor Brush Set : 2 Brushes, 2 Caps
- Item # : S6CT
- Brand : SPG
- Usually Ships : Ready to Ship
- Price (ea) : \$

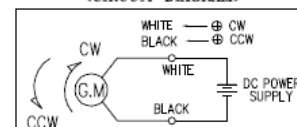


NOTE

1. TYPE : DC GEARED MOTOR ASS'Y
2. GEAR BOX END PLAY : 0.0196 inch [0.5 mm] Max.
3. UNIT : inch [mm] = 1 inch [25.4 mm]

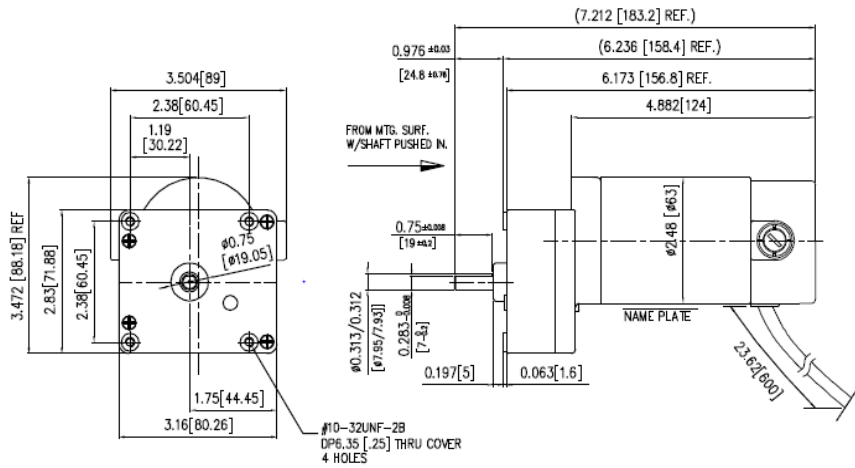


<CIRCUIT DIAGRAM>



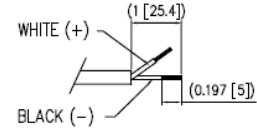
(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

DK Series Drawing

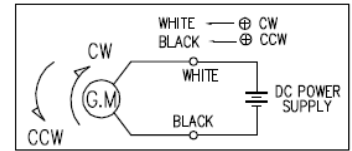


NOTE

1. TYPE : DC GEARED MOTOR ASS'Y
2. GEAR BOX END PLAY : 0.0196 inch[0.5 mm] Max.
3. UNIT : inch[mm] = 1 inch[25.4 mm]



<CIRCUIT DIAGRAM>



(THE DIRECTION OF MOTOR ROTATION IS AS VIEWED FROM THE OUTPUT SHAFT END OF THE MOTOR)

DK Series Image

