TA Series - DC or AC Voltage, 1/4 to 1.0 HP

THOMAS
by Gardner Denver

FEATURES

>Oil-less design
>Permanently lubricated and sealed bearings
>Cast iron cylinders
>PTFE piston rings and skirts
>Long service free life
>Field service capability
>Totally enclosed motor
>Low vibration
>Quiet operation
>Low profile



Declaration documentation available upon request

TYPICAL APPLICATIONS

>Air Suspension
>Central Tire Inflation
>Defense Equipment Manufacturing
>Fire Suppression Systems
>Kneeler Suspension Systems
>Load Leveling Air Suspension Systems
>Pneumatic Doors
>Wheel Flange Lubrication





BASE MODELS

DC Voltage

TA-3101-DC (270024)
(12V DC)

TA-4101-DC (270025)
(12V DC)

TA-4102-DC (270047)
(24V DC)

TA-5102-DC (270058)
(12V DC)

AC Voltage

TA-3051 (270002)
(115/230/60/1)

TA-3101 (270005)
(115/230/60/1)

TA-4101 (270015)
(115/230/60/1)

TA-4102 (270010)
(115/230/60/1)

TA-4172 (270072)
(115/230/60/1)

TA-5102 (270011)
(115/230/60/1)

TA-5102 (270040)
(110/220-240/50/1)

TA-5102 (270043)
(190/380/50/3 & 208-230/460/60/3)

TA-5172 (270073)
(115/230/60/1)

TA-5172 (270078)
(110/220-240/50/1)

TA-6102 (270012)
(115/230/60/1)

TA-6102 (270044)
(190/380/50/3 & 208-230/460/60/3)

TA-6172 (270080)
(115/230/60/1)

TA-6172 (270082)
190/380/50/3 & 208-230/460/60/3)

TA-7102 (270045)
(115/230/60/1)



Articulated Piston

TA Series - DC

Flow	Up to 4.0 cfm (113.2 l/min)
Max. pressure	Up to 100 psig (6.9 bar)
Max. vacuum	**N/A**

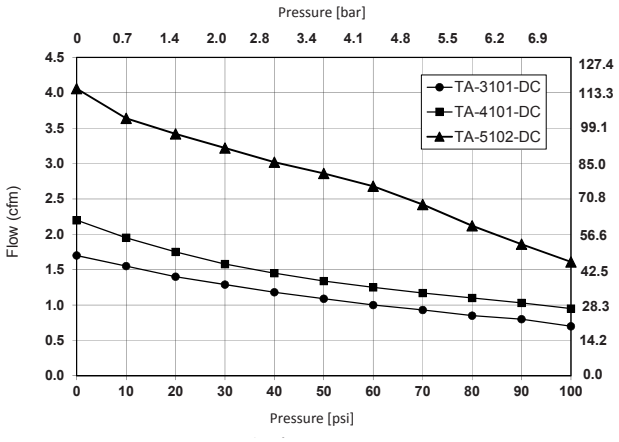


TA-3101-DC
TA-4101-DC

Oil-less



TA-5102-DC



NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

PERFORMANCE DATA

Model number	TA-3101-DC	TA-4101-DC	TA-4101-DC	TA-5102-DC
Manufacturing code	270024	270025	270047	270058
Number of cylinders	1	1	1	2
Nominal voltage input	12V DC	12V DC	24V DC	12V DC
Max. open air flow	1.70 cfm (48.1 l/min)	2.20 cfm (62.2 l/min)	2.20 cfm (62.2 l/min)	4.00 cfm (115.0 l/min)
Max. rated pressure	100 psi (7.0 bar)	100 psi (7.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	26.0A	28.0A	18.5A	45.0A
Power at rated pressure	330W	340W	440W	540W
Max. pressure restart	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (7.0 bar)	100 psi (7.0 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

ELECTRICAL DATA

Motor type	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet
Motor locked rotor current	156A	198A	122A	230A
Thermal Protector	No	No	No	No
Capacitor Value	N/A	N/A	N/A	N/A
Horsepower	1/4	1/3	1/3	1/2

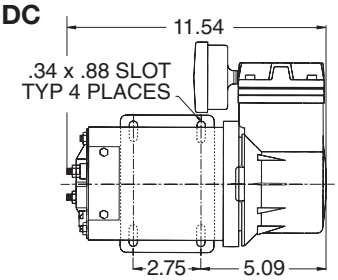
GENERAL DATA

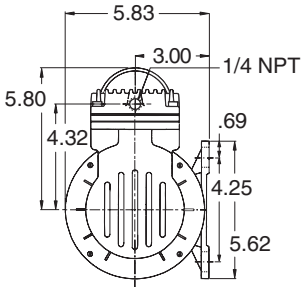
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	22 lbs (10.0 kg)	22 lbs (10.0 kg)	25 lbs (11.3 kg)	40 lbs (18.1 kg)

PRODUCT DIMENSIONS

TA-3101-DC, TA-4101-DC

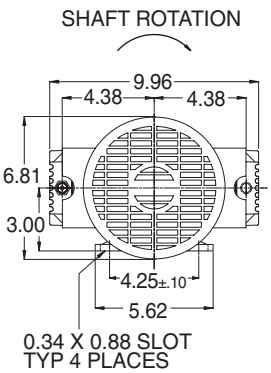
270024, 270025 & 270047

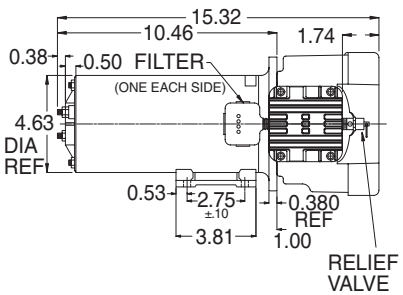




TA-5102

270058





TA Series - AC

Flow	Up to 2.6 cfm (73.6 l/min)
Max. pressure	Up to 100 psig (6.9 bar)
Max. vacuum	**N/A**

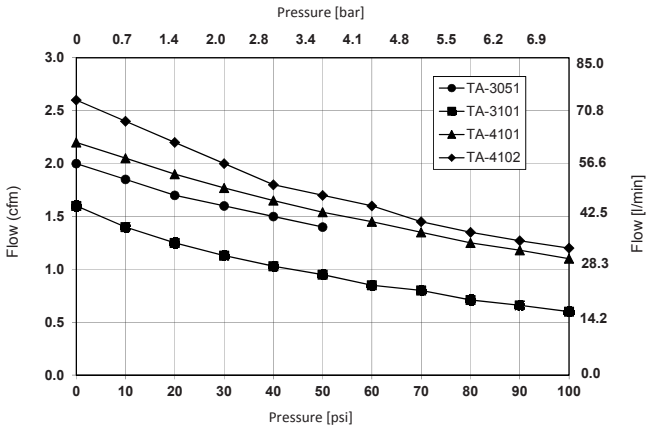


TA-3051
TA-3101
TA-4101

Oil-less



TA-4102



TA Series Flow at Pressure Curve

NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

PERFORMANCE DATA

Model number	TA-3051	TA-3101	TA-4101	TA-4102
Manufacturing code	270002	270005	270015	270010
Number of cylinders	1	1	1	2
Nominal voltage input	115/230/60/1	115/230/60/1	115/230/60/1	115/230/60/1
Max. open air flow	2.0 cfm (56.6 l/min)	1.60 cfm (45.3 l/min)	2.20 cfm (62.2 l/min)	2.60 cfm (73.6 l/min)
Max. rated pressure	50 psi (3.4 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	5.0/2.5A	5.0/2.5A	3.5/3.5A	8.0/4.0A
Power at rated pressure	350W	350W	430W	450W
Max. pressure restart	50 psi (3.4 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

ELECTRICAL DATA

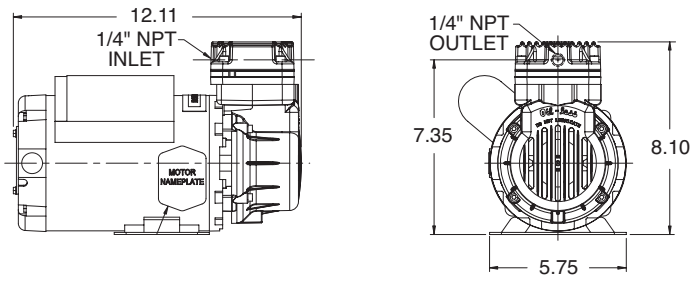
Motor type	Capacitor Start	Capacitor Start	Capacitor Start/Run	Capacitor Start
Motor locked rotor current	23.2/11.9A	23.3/11.9A	23.2A	34.8/18.0A
Thermal Protector	Yes	Yes	Yes	Yes
Capacitor Value	270 mfd	270 mfd	243mfd/20mfd	243 mfd
Horsepower	1/4	1/4	1/3	1/3

GENERAL DATA

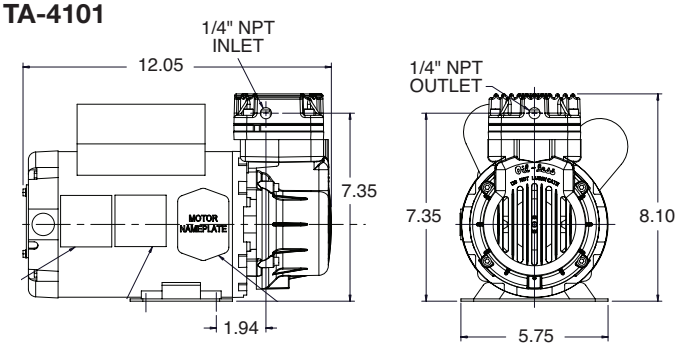
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	21 lbs (9.5 kg)	21 lbs (9.5 kg)	24 lbs (10.9 kg)	36 lbs (16.3 kg)

PRODUCT DIMENSIONS

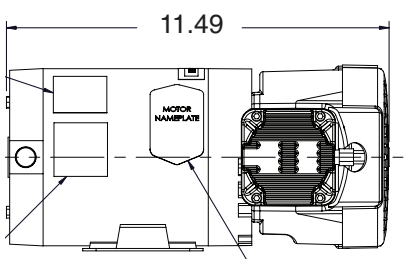
TA-3051, TA3101

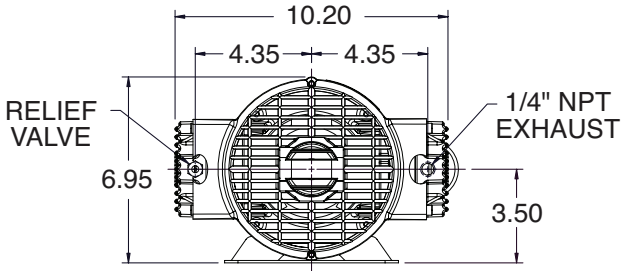


TA-4101



TA-4102





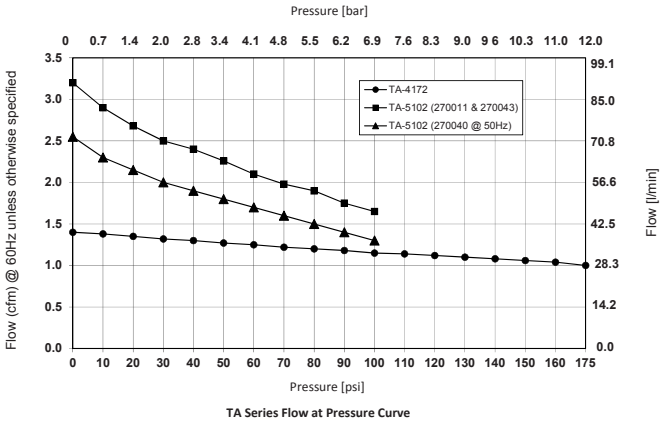
TA Series - AC

Flow	Up to 3.2 cfm (90.6 l/min)
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	**N/A**



Oil-less

TA-4172
TA-5102



TA Series Flow at Pressure Curve

NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

PERFORMANCE DATA

Model number	TA-4172	TA-5102	TA-5102	TA-5102
Manufacturing code	270072	270011	270040	270043
Number of cylinders	2	2	2	2
Nominal voltage input	115/230/60/1	115/230/60/1	110/220-240/50/1	190/380/50/3 208-230/460/60/3
Max. open air flow	1.40 cfm (39.6 l/min)	3.20 cfm (90.6 l/min)	2.55 cfm (72.2 l/min)	3.20 cfm (90.6 l/min)
Max. rated pressure	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	8.0/4.0A	7.2/3.6A	8.2/4.3A	2.0/0.95A
Power at rated pressure	450W	760W	670W	628W
Max. pressure restart	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

ELECTRICAL DATA

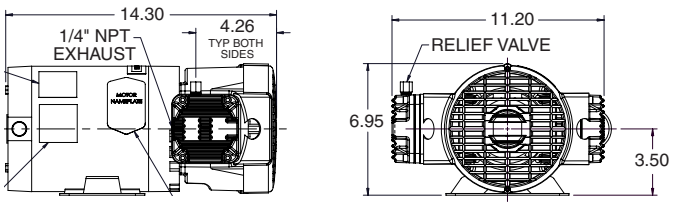
Motor type	Capacitor Start	Capacitor Start	Capacitor Start	Polyphase
Motor locked rotor current	34.8/18.0A	37.0/19.7A	39.0/19.5A	12.5/6.0A
Thermal Protector	Yes	Yes	Yes	No
Capacitor Value	243 mfd	324 mfd	324 mfd	N/A
Horsepower	1/3	1/2	1/2	1/2

GENERAL DATA

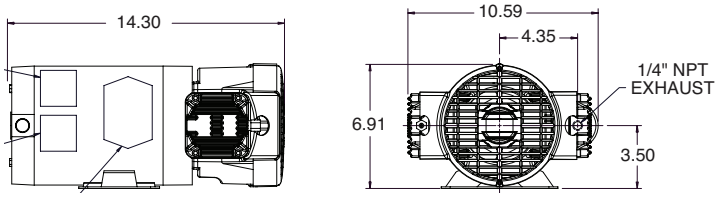
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	45 lbs (20.4 kg)	37 lbs (16.8 kg)	37 lbs (16.8 kg)	37 lbs (16.8 kg)

PRODUCT DIMENSIONS

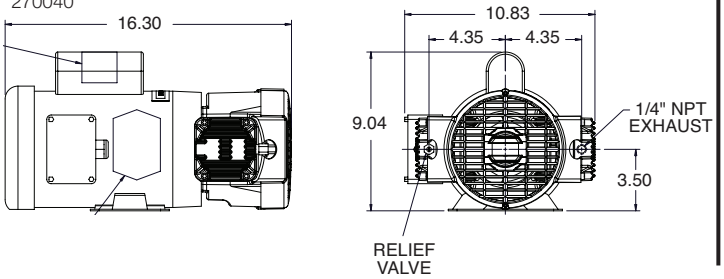
TA-4172
270072



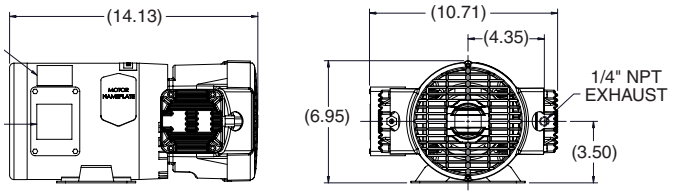
TA-5102
270011



TA-5102
270040



TA-5102
270043

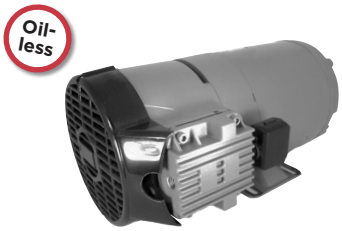


TA Series - AC

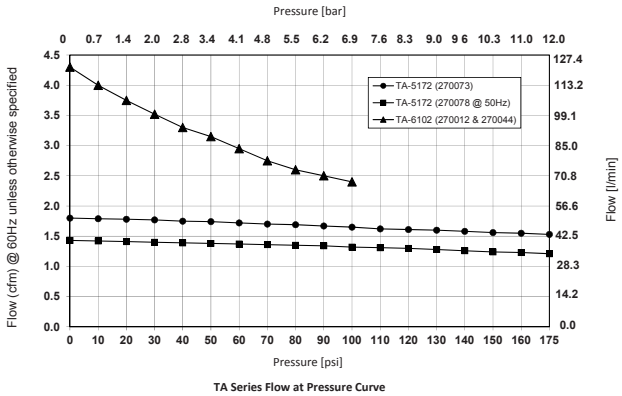
Flow	Up to 4.3 cfm (121.7 l/min)
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	**N/A**



TA-5172



TA-6102



TA Series Flow at Pressure Curve

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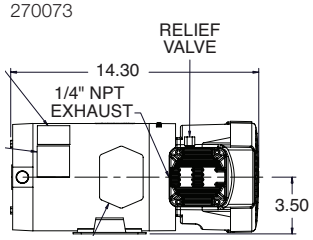
PERFORMANCE DATA				
Model number	TA-5172	TA-5172	TA-6102	TA-6102
Manufacturing code	270073	270078	270012	270044
Number of cylinders	2	2	2	2
Nominal voltage input	115/230/60/1	110/220-240/50/1	115/230/60/1	190/380/50/3 208-230/460/3
Max. open air flow	1.80 cfm (50.9 l/min)	1.43 cfm (40.4 l/min)	4.30 cfm (121.7 l/min)	4.30 cfm (121.7 l/min)
Max. rated pressure	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	7.3/3.6A	8.2/4.3A	10.6/5.3A	2.8/1.4A
Power at rated pressure	760W	670W	825W	800W
Max. pressure restart	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

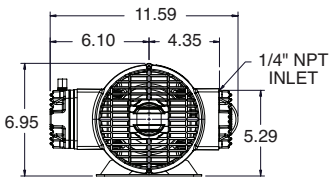
ELECTRICAL DATA				
Motor type	Capacitor Start	Capacitor Start	Capacitor Start	Polyphase
Motor locked rotor current	34.8/18.0A	39.0/19.5A	60.0/30.0A	17.0/8.5A
Thermal Protector	Yes	Yes	Yes	No
Capacitor Value	324 mfd	324 mfd	378 mfd	N/A
Horsepower	1/2	1/2	3/4	3/4

GENERAL DATA				
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	51 lbs (23.1 kg)	51 lbs (23.1 kg)	45 lbs (20.4 kg)	45 lbs (20.4 kg)

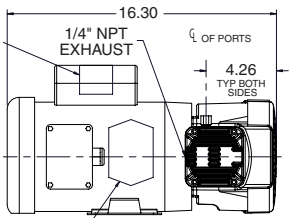
PRODUCT DIMENSIONS

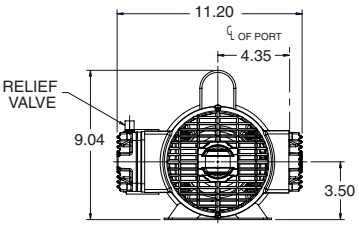
TA-5172
270073



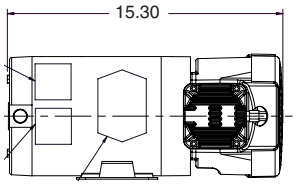


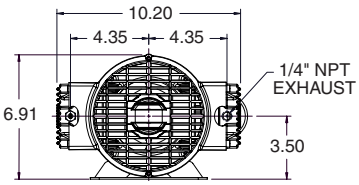
TA-5172
270078



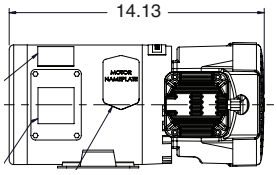


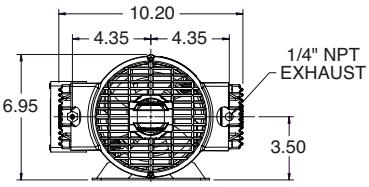
TA-6102
270012





TA-6102
270044





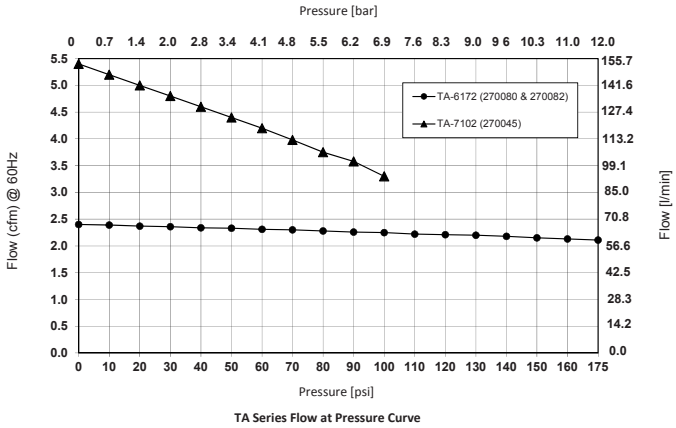
TA Series - AC

Flow	**Up to 5.4 cfm (152.9 l/min)**
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	**N/A**



Oil-less

TA-6172
TA-7102



TA Series Flow at Pressure Curve

NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

PERFORMANCE DATA

Model number	TA-6172	TA-6172	TA-7102	
Manufacturing code	270080	270082	270045	
Number of cylinders	2	2	2	
Nominal voltage input	115/230/60/1	190/380/50/3 208-230/460/60/3	115/230/60/1	
Max. open air flow	2.40 cfm (67.9 l/min)	2.40 cfm (67.9 l/min)	5.40 cfm (152.9 l/min)	
Max. rated pressure	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	
Current at rated pressure	10.6/5.3A	2.8/1.4A	12.0/8.0A	
Power at rated pressure	825W	800W	1625W	
Max. pressure restart	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	
Max. vacuum	N/A	N/A	N/A	
Max. vacuum restart	N/A	N/A	N/A	

ELECTRICAL DATA

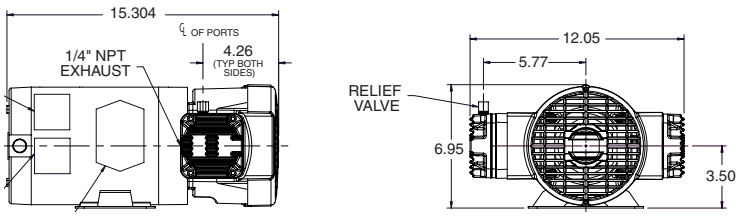
Motor type	Capacitor Start	Polyphase	Capacitor Start/Run	
Motor locked rotor current	60.0/30.0A	17.0/8.5A	65.0/33.0A	
Thermal Protector	Yes	No	Yes	
Capacitor Value	378 mfd	N/A	400/20 mfd	
Horsepower	3/4	3/4	1.0	

GENERAL DATA

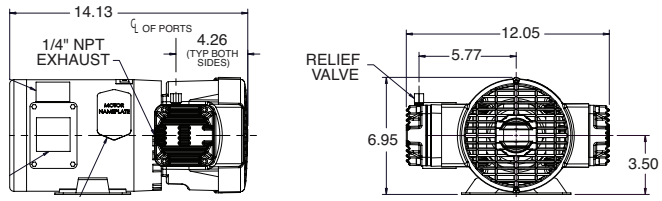
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	
Net weight	56 lbs (25.4 kg)	56 lbs (25.4 kg)	61 lbs (27.7 kg)	

PRODUCT DIMENSIONS

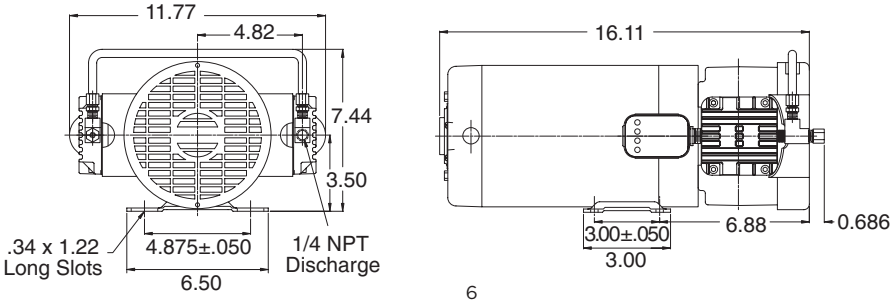
TA-6172
270080



TA-6172
270082



TA-7102
270045



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE
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THOMAS
by Gardner Denver

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