

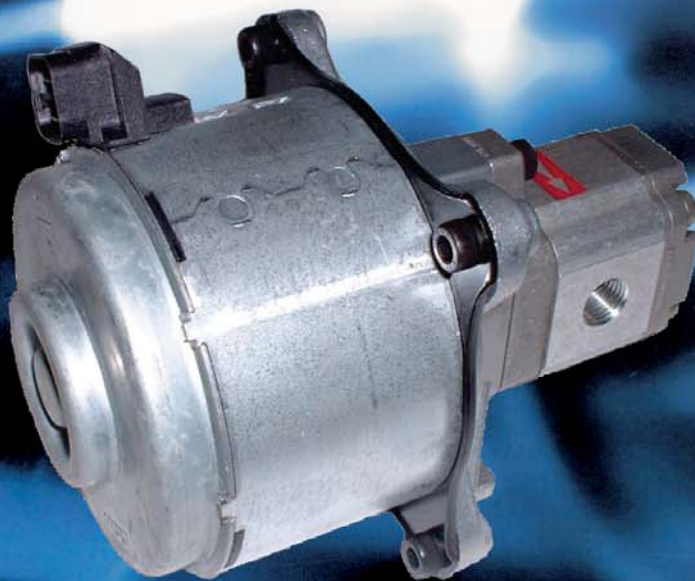
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North American Catalog



HYDRAULIC INNOVATION
AT YOUR SERVICE

3G

MICRO PUMP-MOTOR
COMBINATIONS
3'RD GENERATION





Hydroperfect Intl. Inc.

North America

Tel: (905) 791-3388

Fax: (905) 791-7322

SALES ORGANIZATION

Who are we? HPI develops and manufactures hydraulic products and systems based on the gear pump technology. Over 500 people are employed in both sites in Chennevieres (Paris surroundings) and Blois (Val de Loire). As a subsidiary of the Koyo Group (25000 employees all over the world), HPI is provided with first range development and testing capacities, thus conforming to an international quality system of reference.

HPI is supported by a subsidiary in North America and a network of over 50 distributors in France and throughout the world. This network offers our customers a daily local service, thus ensuring a maximum reactivity. Whenever needed, each member of our network can rely on the resources and structures of HPI in order to meet its customers requirements.



Material Handling

Lifting systems for all stationary (AC) or mobile (DC) handling equipment.

Aeronautics - Military applications

High tech pumps and electro-pump sets used for civil and military applications such as helicopters, fighters, military vehicles...

Trucks - Coaches - Buses

Power assisted steering. Hydrostatic transmission for hydraulic or electro-hydraulic driven cooling system

Agricultural Machinery

Tractor lifting systems and auxillary functions, harvest toppers, scrub clearing machines...

Public works and Road Maintenance

Hydraulic systems for excavators, loaders, road rollers, garbage dumpers, snowploughs...

MICRO PUMP-MOTOR COMBINATIONS
MICRO GROUPES ELECTRO POMPES **3G**



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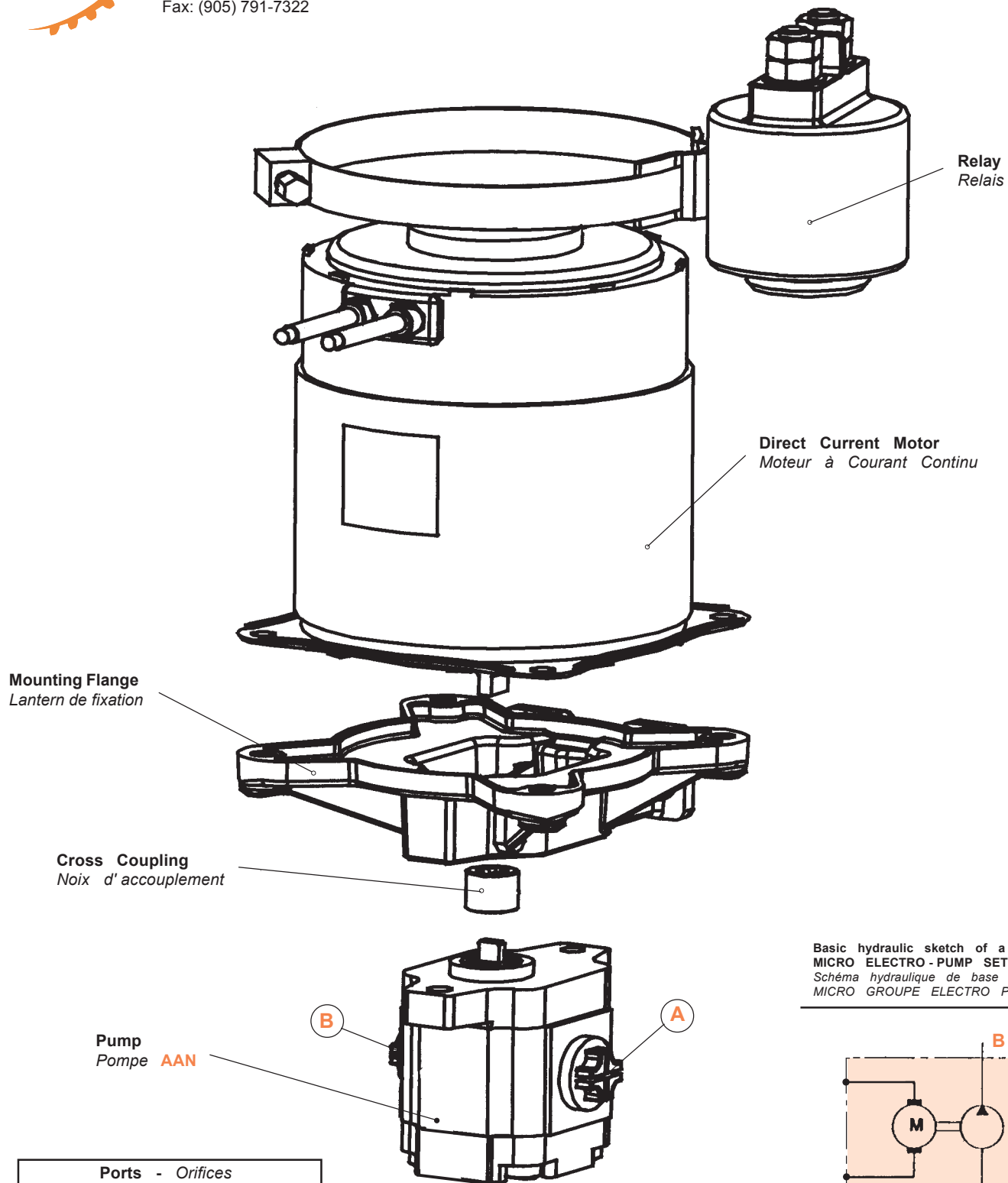
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DIRECT CURRENT	
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UNIT COMPOSITION - DIRECT CURRENT COMPOSITION - COURANT CONTINU



Selection Guidelines

Direct Current Models

Based upon the flow and pressure requirements identify a motor and pump combination that will deliver the required performance. Attention should be paid to the duty ratings as well as the current draw to ensure it falls within acceptable levels.

Alternating Current Models

Based upon the flow and pressure requirements select a pump that is capable of providing the necessary flow and pressure. It is generally recommended that the 3450 RPM motors are used. Once the pump has been identified it will be necessary to calculate the required HP to drive the pump. Refer to the "Common Calculations and Conversion factors" area.

Selecting Control Valves

The final step in constructing the pump motor combination is to determine the valve combination that will be required. In the simplest form the unit is supplied without any additional valves. Optional components such as relief valves, check valves, flow controls can be integrated into the unit if required. For applications that are not listed in this catalog please contact an HPI representative.

Installation Guidelines

Electrical Motor Connections

The electric motor should be wired for CW rotation as per the wiring label. All electrical connections should be made using the appropriate gauge wire based on the motor amp draw. It is common for a motor to see two to three times its rated current draw for a few seconds while starting up under load.

Hydraulic Fluid.

In General HPI recommends a high performance mineral based hydraulic fluid with a viscosity of 30 to 40 cSt at 40°C be used. Ethylene Glycol and Phostate Ester fluids are NOT to be used with HPI products. For fire resistant hydraulic fluids; only some polyol ester based fluids may be appropriate.

Instructions specific to Models with Integral Valves.

Electrical Valve Connections

Attention should be paid as to the type of connector that is supplied with the valve coils. HPI uses both straight voltage and rectified voltage coils. AC coils that require rectified connectors are usually marked as "VRAC" (Voltage Rectified Alternating Current.)

Adjusting the Relief Valve

The relief valve may be adjusted to increase or decrease the maximum system pressure. This adjustment will only affect the pressure setting and will have no direct effect on the flow of the pump. It is important that the relief valve is not turned in all the way, as doing so would cause possible catastrophic failure of components in the system should there be a spike in pressure. Turning the adjustment screw clockwise will increase the pressure, turning counterclockwise will decrease the pressure.



CODIFICATION TABLE

MICRO 3G PUMP MOTOR COMBINATIONS

DIRECT CURRENT

(NORTH AMERICAN FORMAT)

REVISION 2- 05/2007

CODIFICATION

North American

N

PUMP TYPE

Series 1

0

GENERATION

2nd Generation

3

MOTOR TYPE

NO MOTOR

000

0,4 kW 12 Vdc

MF1

0,4 kW 24 Vdc

MF2

0,9 kW 12 Vdc

AF1

1,0 kW 24 Vdc

HF2

1,2 kW 24 Vdc

AF2

SPECIAL

PUMP CAPACITY

0,25 cc / rev 0,015 Cubic / Inch **025**

0,50 cc / rev 0,030 Cubic / inch **050**

0,75 cc / rev 0,045 Cubic / Inch **075**

1,00 cc / rev 0,060 Cubic / Inch **100**

1,25 cc / rev 0,075 Cubic / Inch **125**

1,50 cc / rev 0,090 Cubic / Inch **150**

2,00 cc / rev 0,120 Cubic / Inch **200**

SHAFT TYPE

TANG SHAFT

T

RELAY

NONE

X

WITH RELAY

R

VALVES

NOT APPLICABLE

XX

RESERVOIR

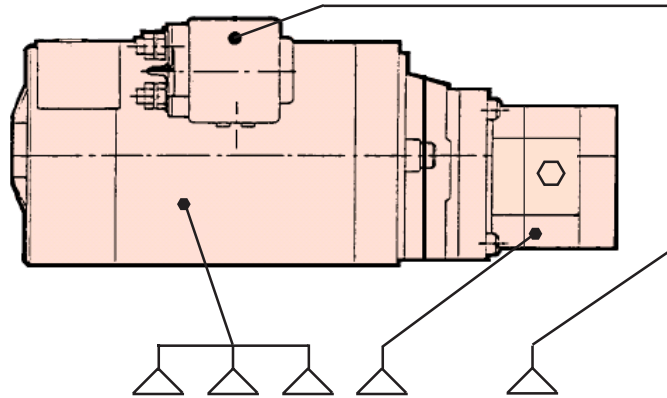
NO RESERVOIR

X

RELIEF SETTING

NOT APPLICABLE

LEAVE BLANK



N	0	3	H	F	2	050	T	R	XX	X	####
----------	----------	----------	----------	----------	----------	------------	----------	----------	-----------	----------	-------------



CODIFICATION TABLE

MICRO 3G PUMP MOTOR COMBINATIONS

ALTERNATING CURRENT

(NORTH AMERICAN FORMAT)

REVISION 2- 05/2007

CODIFICATION

North American

N

PUMP TYPE

Series 1

0

GENERATION

2'nd Generation

3

MOTOR TYPE

NO MOTOR

0

0.25 HP

A

0.33 HP

B

0.50 HP

D

0.75 HP

G

1.00 HP

F

1.50 HP

X

2.00 HP

Y

3.00 HP

W

5.00 HP

R

SPECIAL

VOLTAGE

NO MOTOR

X

115 / 230 1725 RPM

3

115 / 230 3450 RPM

4

230 / 460 1725 RPM

5

230 / 460 3450 RPM

6

575 1725 RPM

7

575 3450 RPM

8

AIR MOTOR

9

SPECIAL

MOTOR SPECIAL

NONE

X

WASHDOWN

W

THERMAL PROTECTION

T

50 hz

E

8 VANE AIR MOTOR

V

SPECIAL

PUMP CAPACITY

0,25 cc / rev 0,015 Cubic / Inch **025**

0,50 cc / rev 0,030 Cubic / inch **050**

0,75 cc / rev 0,045 Cubic / Inch **075**

1,00 cc / rev 0,060 Cubic / Inch **100**

1,25 cc / rev 0,075 Cubic / Inch **125**

1,50 cc / rev 0,090 Cubic / Inch **150**

2,00 cc / rev 0,120 Cubic / Inch **200**

SHAFT TYPE

KEYED SHAFT

T

RELAY

NONE

X

VALVES

NOT APPLICABLE

XX

RESERVOIR

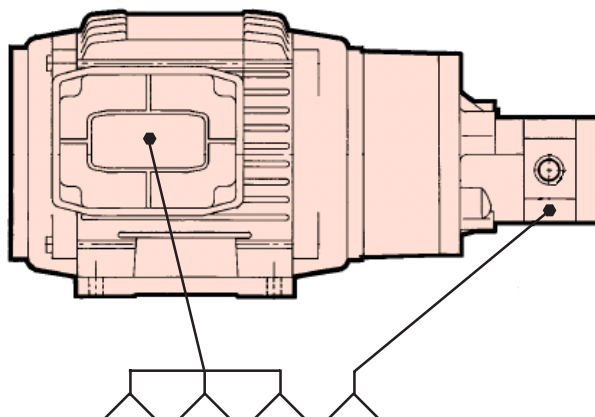
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X

RELIEF SETTING

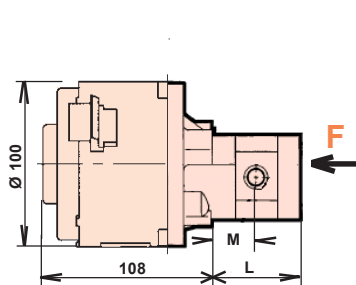
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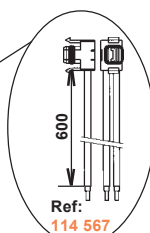
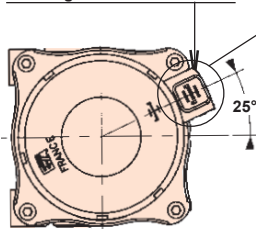


MOTOR SPECIFICATIONS - DIRECT CURRENT

SPECIFICATION MOTEUR - COURANT CONTINU



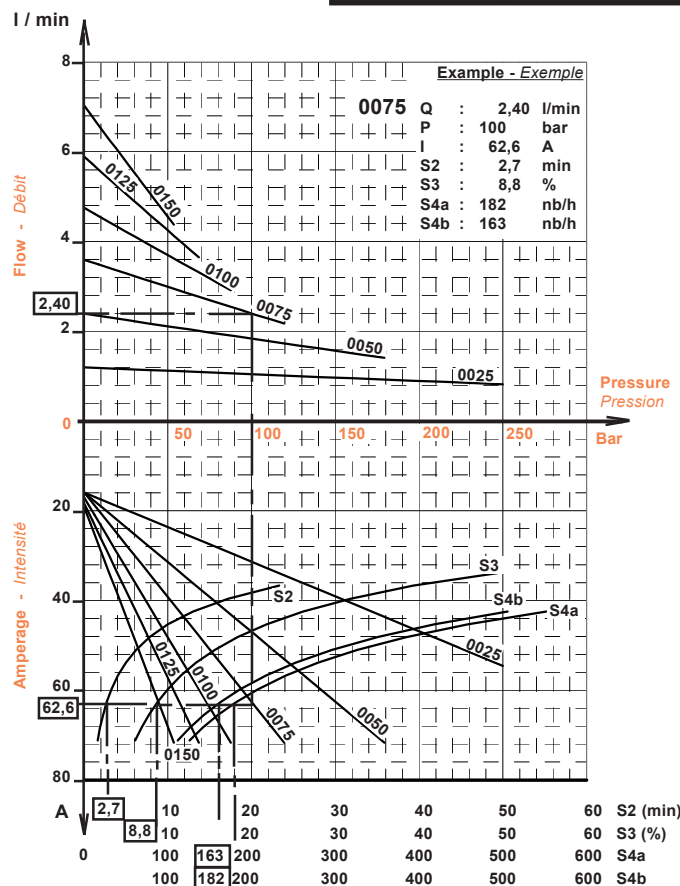
Housing - Boîtier - Gehäuse



PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

SPECIFICATIONS	
CODE CODE	MF1
VOLTAGE TENSION	12VDC
REFERENCE REFERENCE	114223
NOMINAL POWER PUISSANCE NOM.	0,4 kW
S3 S3	10%
PROTECTION PROTECTION	na
MASS MASSE	1,8 Kg

PUMPS POMPES		12 V PRESSURE - PRESSION							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
0025	Q	1,19	1,12	1,04	0,96	0,93	0,89	0,85	0,82
	I	16,7	23,6	31,4	39,1	43,0	46,8	50,7	54,5
	S2	30	30	30	18,1	12,4	8,8	6,4	4,7
	S3	50	50	50	33	25,3	19,8	15,9	12,9
	S4a	600	600	600	600	533	417	332	269
	S4b	600	600	600	600	488	380	301	243
0050	Q	2,37	2,11	1,83	1,57	1,43	185 bar Max		
	I	17,4	31,4	47,0	62,5	70,3			
	S2	30	30	8,6	2,7	1,7			
	S3	50	50	19,6	8,8	6,3			
	S4a	600	600	412	182	130			
	S4b	600	600	376	163	116			
0075	Q	3,53	2,99	2,40	120 bar Max				
	I	18,2	39,2	62,6					
	S2	30	17,9	2,7					
	S3	50	32,7	8,8					
	S4a	600	600	182					
	S4b	600	600	163					
0100	Q	4,65	3,70	85 bar Max					
	I	20,1	48,2						
	S2	30	7,8						
	S3	50	18,3						
	S4a	600	383						
	S4b	600	349						
0125	Q	5,73	4,25	65 bar Max					
	I	22,2	57,2						
	S2	30	3,9						
	S3	50	11,3						
	S4a	600	235						
	S4b	600	212						
0150	Q	6,78	4,55	55 bar Max					
	I	23,9	68,0						
	S2	30	1,9						
	S3	50	6,9						
	S4a	600	143						
	S4b	600	128						
0200	Q								
	I								
	S2								
	S3								
	S4a								
	S4b								



Duties - Services



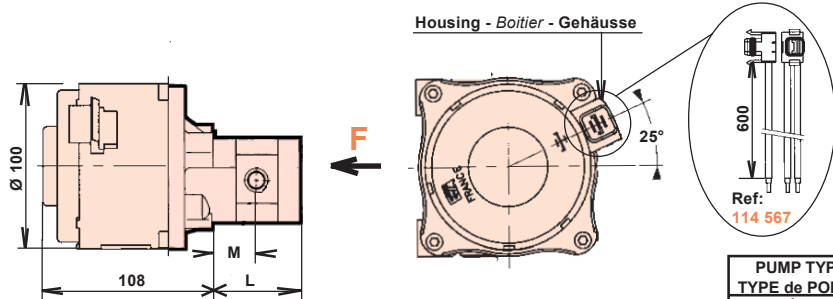
Curves drawn using Shell Tellus T46
Viscosity of 46 cST (+/- 10%) at 40°C
Ambient temperature 20°C

Note: Specifications subject to change

- Q: Flow (l/min) / Débit (l / min)
I: Amperage / Intensité en Amperes
S1: Continuous Duty / Service Continu
S2: Temporary Duty (min) / Service Temporaire (min)
S3: Intermittent Duty (10% of 10 min) / Service Intermittent (10% de 10 min)
ID: Starting Amperage / Intensité de démarrage

MOTOR SPECIFICATIONS - DIRECT CURRENT

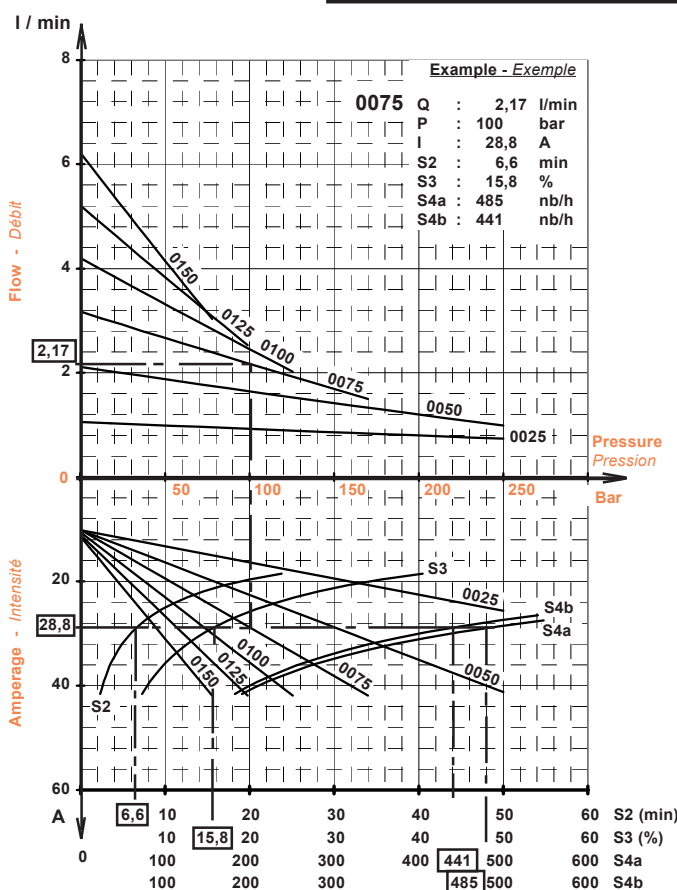
SPECIFICATION MOTEUR - COURANT CONTINU



SPECIFICATIONS	
CODE CODE	MF2
VOLTAGE TENSION	24VDC
REFERENCE REFERENCE	114224
NOMINAL POWER PUISSANCE NOM.	0,4 kW
S3 S3	10%
PROTECTION PROTECTION	na
MASS MASSE	1,8 Kg

PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

PUMPS POMPES		24 V PRESSURE - PRESSION							
		5 bar	50 bar	100 bar	150 bar	175 bar	200 bar	225 bar	250 bar
		72 PSI	725 PSI	1450 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI
0025	Q	1,05	0,99	0,92	0,86	0,83	0,80	0,77	0,74
	I	10,5	13,3	16,3	19,4	21,0	22,5	24,1	25,6
	S2	30	30	30	20,6	16,5	13,5	11,1	9,3
	S3	50	50	50	36,4	30,9	26,6	23,1	20,3
	S4a	600	600	600	600	600	600	600	600
	S4b	600	600	600	600	600	600	600	586
0050	Q	2,09	1,88	1,64	1,42	1,31	1,20	1,09	0,99
	I	10,8	16,4	22,6	28,8	31,9	35,0	38,1	41,2
	S2	30	30	13,4	6,6	4,9	3,8	3,0	2,4
	S3	50	50	26,4	15,8	12,7	10,4	8,7	7,4
	S4a	600	600	600	485	374	295	238	195
	S4b	600	600	600	442	345	276	224	186
0075	Q	3,12	2,67	2,17	1,69	170 bar Max			
	I	11,1	19,5	28,8	38,2				
	S2	30	20,4	6,6	3,0				
	S3	50	36,2	15,8	8,7				
	S4a	600	600	485	237				
	S4b	600	600	441	224				
0100	Q	4,11	3,32	2,45	125 bar Max				
	I	11,9	23,1	35,6					
	S2	30	12,6	3,6					
	S3	50	25,3	10,1					
	S4a	600	600	284					
	S4b	600	600	266					
0125	Q	5,07	3,83	95 bar Max					
	I	12,7	26,7						
	S2	30	8,3						
	S3	50	18,6						
	S4a	600	590						
	S4b	600	531						
0150	Q	6,00	4,15	75 bar Max					
	I	13,4	31,0						
	S2	30	5,4						
	S3	50	13,5						
	S4a	600	402						
	S4b	600	370						
0200	Q								
	I								
	S2								
	S3								
	S4a								
	S4b								



Duties - Services



Curves drawn using Shell Tellus T46
Viscosity of 46 cST (+/- 10%) at 40°C
Ambient temperature 20°C

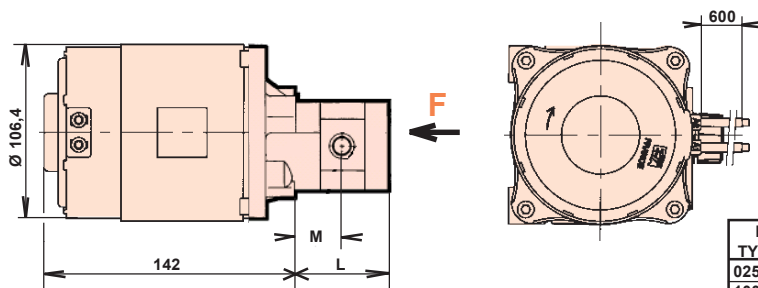
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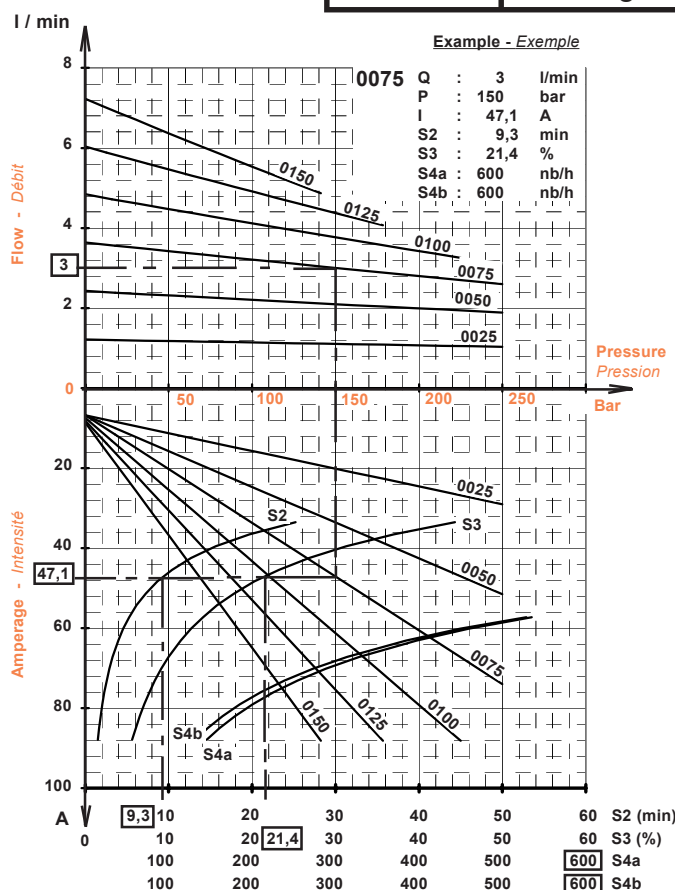
MOTOR SPECIFICATIONS - DIRECT CURRENT SPECIFICATION MOTEUR - COURANT CONTINU



PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

SPECIFICATIONS	
CODE CODE	HF2
VOLTAGE TENSION	24VDC
REFERENCE REFERENCE	114225
NOMINAL POWER PUISSANCE NOM.	1 kW
S3 S3	10%
PROTECTION PROTECTION	na
MASS MASSE	3,2 Kg

PUMPS POMPES		24 V PRESSURE - PRESSION							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
0025	Q	1,21	1,18	1,14	1,10	1,09	1,07	1,05	1,03
	I	7,3	11,3	15,7	20,2	22,4	24,6	26,8	29,0
	S2	30	30	30	30	30	30	30	30
	S3	50	50	50	50	50	50	50	50
	S4a	600	600	600	600	600	600	600	600
	S4b	600	600	600	600	600	600	600	600
0050	Q	2,41	2,31	2,20	2,10	2,04	1,99	1,94	1,89
	I	7,7	15,8	24,7	33,6	38,1	42,6	47,0	51,5
	S2	30	30	30	25,1	17,4	12,5	9,4	7,2
	S3	50	50	50	44,2	33,8	26,6	21,5	17,7
	S4a	600	600	600	600	600	600	600	600
	S4b	600	600	600	600	600	600	600	600
0075	Q	3,62	3,42	3,21	3,0	2,9	2,8	2,7	2,6
	I	8,1	20,2	33,7	47,1	53,8	60,5	67,3	74
	S2	30	30	30	25,0	9,3	6,3	4,5	3,3
	S3	50	50	44,1	21,4	16,1	12,5	10,0	8,1
	S4a	600	600	600	600	600	451	328	245
	S4b	600	600	600	600	600	440	313	230
0100	Q	4,80	4,47	4,12	3,77	3,59	3,42	3,25	
	I	9,3	25,4	43,3	61,3	70,2	79,2	88,2	
	S2	30	30	30	11,9	4,3	2,9	2	
	S3	50	50	25,6	12,2	9,1	7,0	5,6	
	S4a	600	600	600	435	287	200	144	
	S4b	600	600	600	424	272	184	130	
0125	Q	5,98	5,47	4,91	4,37	4,11			
	I	10,4	30,6	53,0	75,4	86,6			
	S2	30	30	6,6	2,3	1,6			
	S3	50	50	16,7	7,8	5,8			
	S4a	600	600	600	232	152			
	S4b	600	600	600	216	138			
0150	Q	7,14	6,37	5,53					
	I	11,4	36,8	65,0					
	S2	30	30	19,2	3,6				
	S3	50	36,4	10,8					
	S4a	600	600	364					
	S4b	600	600	350					
0200	Q								
	I								
	S2								
	S3								
	S4a								
	S4b								



Curves drawn using Shell Tellus T46
Viscosity of 46 cST (+/- 10%) at 40°C
Ambient temperature 20°C

Note: Specifications subject to change

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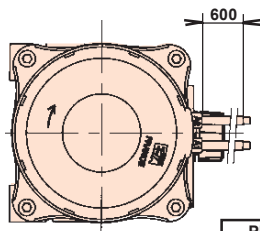
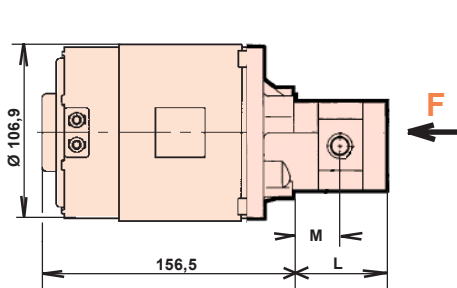
MICRO PUMP-MOTOR COMBINATIONS
MICRO GROUPES ELECTRO POMPES **3G**

TYPE **HF - 24 VDC: 1,0 kW**



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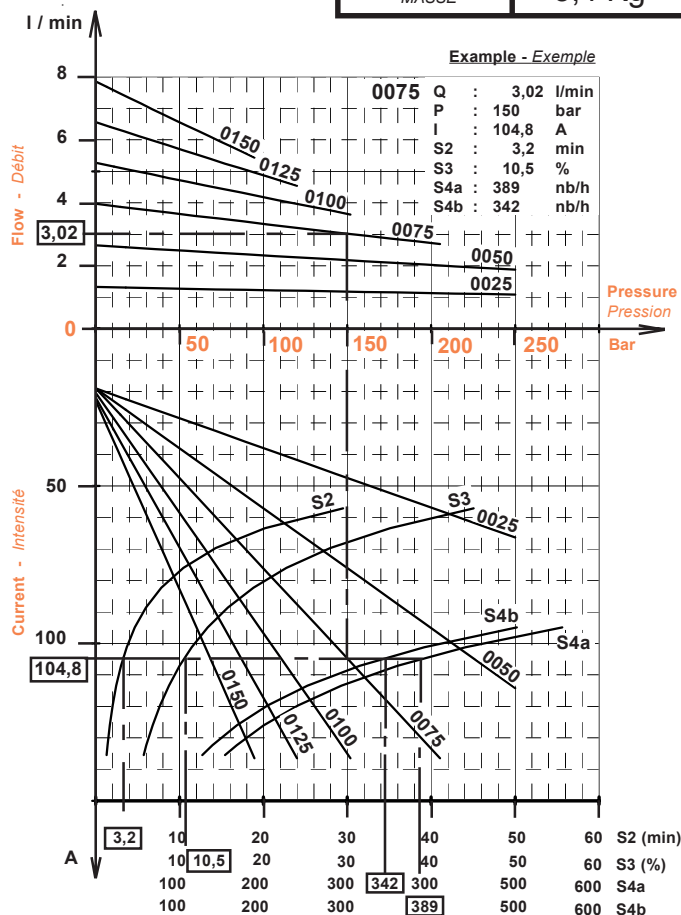
MOTOR SPECIFICATIONS - DIRECT CURRENT SPECIFICATION MOTEUR - COURANT CONTINU



PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

SPECIFICATIONS	
CODE CODE	AF1
VOLTAGE TENSION	12VDC
REFERENCE REFERENCE	114226
NOMINAL POWER PUISSANCE NOM.	0,9 kW
S3 S3	10%
PROTECTION PROTECTION	na
MASS MASSE	3,4 Kg

PUMPS POMPES		VOLTAGE - TENSION 12 V							
		PRESSURE - PRESSION							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
0025	Q	1,32	1,27	1,22	1,18	1,15	1,13	1,11	1,08
	I	20,0	28,5	37,9	47,4	52,1	56,9	61,6	66,3
	S2	30	30	30	30	30	29,9	22,4	17,1
	S3	50	50	50	50	50	45,5	37,6	31,5
	S4a	600	600	600	600	600	600	600	600
	S4b	600	600	600	600	600	600	600	600
	PC								
0050	Q	2,63	2,48	2,33	2,17	2,10	2,02	1,95	1,88
	I	20,9	38,0	57,1	76,1	85,6	95,2	104,7	114,2
	S2	30	30	29,5	10,4	6,8	4,6	3,3	2,4
	S3	50	50	45,1	22,6	17,1	13,3	10,6	8,6
	S4a	600	600	600	600	600	551	390	285
	S4b	600	600	600	600	600	497	344	245
	PC								
0075	Q	3,93	3,64	3,33	3,02	2,87	2,72		
	I	21,8	47,6	76,2	104,8	119,1	133,5		
	S2	30	30	10,3	3,2	2,0	1,3		
	S3	50	50	22,6	10,5	7,7	5,9		
	S4a	600	600	600	389	245	163		
	S4b	600	600	600	342	209	135		
	PC								
0100	Q	5,21	4,72	4,18	3,65				
	I	24,2	58,6	96,8	135				
	S2	30	26,9	4,3	1,3				
	S3	50	42,4	12,7	5,7				
	S4a	600	600	518	156				
	S4b	600	600	465	129				
	PC								
0125	Q	6,48	5,70	4,87					
	I	26,7	69,6	117,4					
	S2	30	14,3	2,2					
	S3	50	28	8,0					
	S4a	600	600	600					
	S4b	600	600	600					
	PC								
0150	Q	7,72	6,56						
	I	28,9	82,9						
	S2	30	7,6						
	S3	50	18,5						
	S4a	600	600						
	S4b	600	600						
	PC								
0200	Q								
	I								
	S2								
	S3								
	S4a								
	S4b								
	PC								



Duties - Services



Curves drawn using Shell Tellus T46
Viscosity of 46 cST (+/- 10%) at 40°C
Ambient temperature 20°C

Note: Specifications subject to change

- Q: Flow (l/min) / Débit (l / min)
I: Amperage / Intensite en Amperes
S1: Continuous Duty / Service Continu
S2: Temporary Duty (min) / Service Temporaire (min)
S3: Intermittent Duty (10% of 10 min) / Service Intermittent (10% de 10 min)
ID: Starting Amperage / Intensite de demarrage:

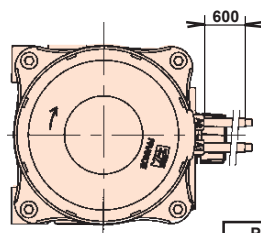
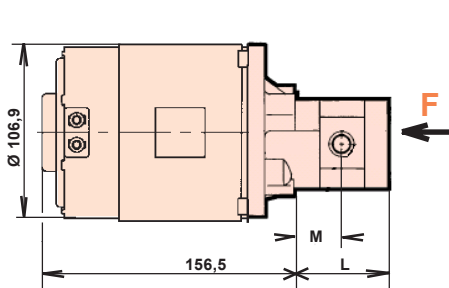
MICRO PUMP-MOTOR COMBINATIONS
MICRO GROUPES ELECTRO POMPES **3G**

TYPE **AF - 12 VDC: 0,9 kW**



Hydroperfect Intl. Inc.
North America
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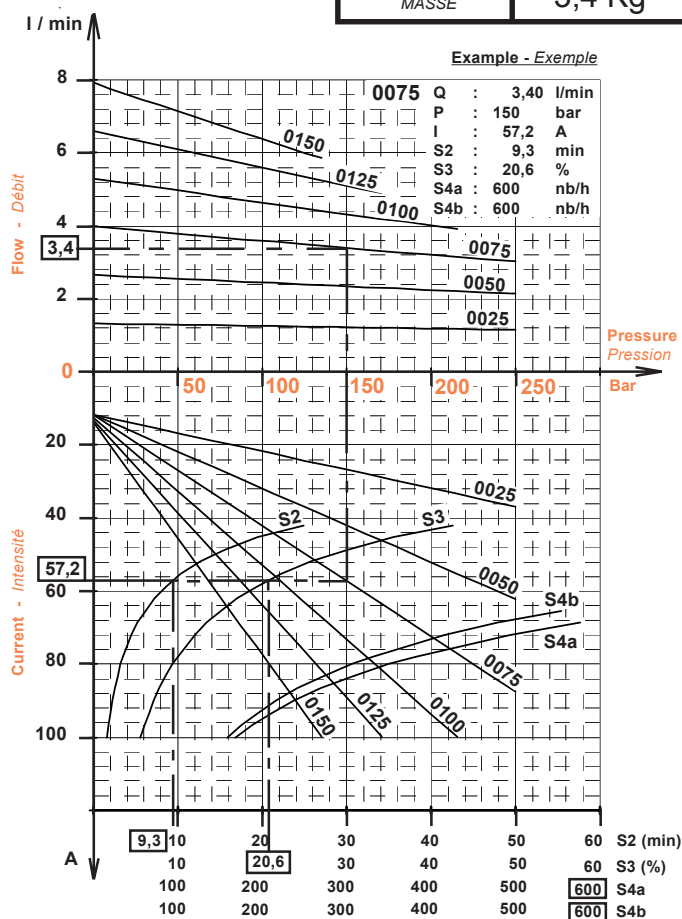
MOTOR SPECIFICATIONS - DIRECT CURRENT SPECIFICATION MOTEUR - COURANT CONTINU



PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

SPECIFICATIONS	
CODE CODE	AF2
VOLTAGE TENSION	24VDC
REFERENCE REFERENCE	114227
NOMINAL POWER PUISSANCE NOM.	1,2 kW
S3 S3	10%
PROTECTION PROTECTION	na
MASS MASSE	3,4 Kg

PUMPS POMPES		VOLTAGE - TENSION 24 V							
		PRESSURE - PRESSION							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
0025	Q	1,32	1,29	1,25	1,22	1,20	1,19	1,17	1,15
	I	12,2	16,7	21,7	26,8	29,3	31,8	34,3	36,8
	S2	30	30	30	30	30	30	30	30
	S3	50	50	50	50	50	50	50	50
	S4a	600	600	600	600	600	600	600	600
	S4b	600	600	600	600	600	600	600	600
	PC	35	35	35	35	35	35	35	35
0050	Q	2,64	2,55	2,44	2,34	2,29	2,24	2,19	2,14
	I	12,7	21,8	31,9	42	47	52,1	57,2	62,2
	S2	30	30	30	24,7	17,3	12,5	9,3	7,1
	S3	50	50	50	42,4	32,5	25,6	20,6	16,9
	S4a	600	600	600	600	600	600	600	595
	S4b	600	600	600	600	600	600	600	553
	PC	35	35	35	27	19	13	10	7
0075	Q	3,96	3,78	3,59	3,40	3,30	3,21	3,12	3,02
	I	13,2	26,8	42,0	57,2	64,8	72,4	80	87,6
	S2	30	30	24,7	9,3	6,3	4,4	3,2	2,4
	S3	50	50	42,3	20,6	15,4	11,9	9,4	7,6
	S4a	600	600	600	600	600	485	350	260
	S4b	600	600	600	600	567	410	306	234
	PC	35	35	27	10	7	5	3	2
0100	Q	5,26	4,97	4,64	4,32	4,16	4,01	215 bar Max	
	I	14,4	32,7	53,0	73,2	83,4	93,5		
	S2	30	30	11,9	4,3	2,8	2,0		
	S3	50	50	24,6	11,5	8,5	6,5		
	S4a	600	600	600	467	305	210		
	S4b	600	600	600	396	271	193		
	PC	35	35	13	4	3	2		
0125	Q	6,56	6,09	5,59	5,09	170 bar Max			
	I	15,8	38,6	63,9	89,2				
	S2	30	30	6,6	2,3				
	S3	50	50	15,9	7,3				
	S4a	600	600	600	245				
	S4b	600	600	600	222				
	PC	35	35	7	2				
0150	Q	7,84	7,13	6,37	135 bar Max				
	I	16,9	45,6	77,4					
	S2	30	19,1	3,6					
	S3	50	35	10,1					
	S4a	600	600	389					
	S4b	600	600	337					
	PC	35	21	4					
0200	Q								
	I								
	S2								
	S3								
	S4a								
	S4b								
	PC								



Curves drawn using Shell Tellus T46
Viscosity of 46 cST (+/- 10%) at 40°C
Ambient temperature 20°C

Note: Specifications subject to change

- Q: Flow (l/min) / Débit (l / min)
I: Amperage / Intensité en Amperes
S1: Continuous Duty / Service Continu
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S3: Intermittent Duty (10% of 10 min) / Service Intermittent (10% de 10 min)
ID: Starting Amperage / Intensité de démarrage

MICRO PUMP-MOTOR COMBINATIONS
MICRO GROUPES ELECTRO POMPES **3G**

TYPE **AF - 24 VDC: 1,2 kW**



Hydroperfect Intl. Inc.
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MOTOR SPECIFICATIONS - AC CURRENT ***SPECIFICATION MOTEUR - COURANT AC***

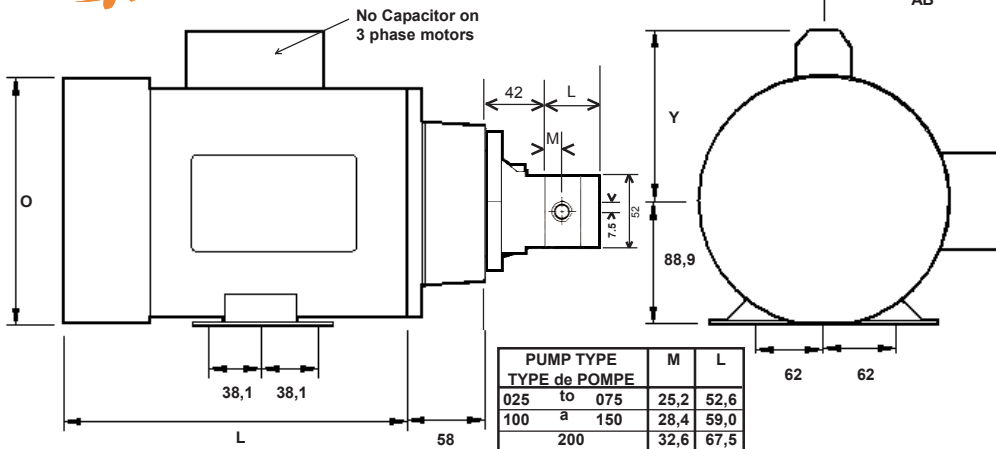
**CONSULT SALES DEPARTMENT
FOR INTERMITTENT DUTY 42 & 48C
FRAME UNITS.**



Hydroperfect Intl. Inc.
North America
 Tel: (905) 791-3388
 Fax: (905) 791-7322

MOTOR SPECIFICATIONS - AC CURRENT

SPECIFICATION MOTEUR - COURANT AC



PUMP TYPE TYPE de POMPE	M	L
025 to 075	25,2	52,6
100 a 150	28,4	59,0
200	32,6	67,5

MODEL	Capacity cm ³ /rev	P3 Bar	Nominal Flow	
			1725 RPM L /min	3450 RPM L /min
MODELE	Capacité cm ³ /t	P3 Bar	Debit Nominal 1725 t/min l /min	3450 t/min l /min
025	0,25	280	0,32	0,74
050	0,50	280	0,79	1,67
075	0,75	250	1,22	2,54
100	1,00	250	1,66	3,38
125	1,25	200	2,07	4,23
150	1,50	150	2,48	5,07
200	2,00	125	3,40	6,73

Note! Flow ratings are calculated at the maximum continuous pressure and corresponding volumetric efficiency at the specified RPM.

MOTOR MOTEUR	115 / 230V, SINGLE PHASE SPECIFICATIONS - SPECIFICATION							
HP	RPM t/min	L	O	Y	AB	Amps Intensité	Weight Masse	Reference Reference
0.25	1725	194	167	111	117	2,1	9,6	101053C/L
	3450							
0.33	1725	227	181	125	135	2,9	9,6	M002256C/L ⁶
	3600	207	162	113	na	2,2	9,1	G534
0.50	1725	227	181	125	135	3,9	10,9	M009086C/L ⁶
	3450	223	180	141	136	3,6	10	110399C/L
0.75	1725	235	180	141	135	5,4	11,8	110087C/L ^{6,7}
	3600	261		123	142	5,3	12,7	D312
1.00	1725	248	180	141	136	7,0	15,9	114466 ⁶
	3450	248	180	141	136	6,0	13,6	114475C/L ⁶
1.50	1725	273	180	119	135	8,6	18,6	110089C/L ^{6,7}
	3450	261	180	134	135	8,5	15,5	110909
2.00	1725	297	180	126	135	9,2	19,5	110090C/L ^{6,7,8}
	3450	286	180	134	135	10	20,9	113931
3.00	1725							
	3450	297	182	128	136	14	21	120341MOD ⁸

MOTOR MOTEUR	230 / 460V, THREE PHASE SPECIFICATIONS - SPECIFICATION							
HP	RPM t/min	L	O	Y	AB	Amps Intensité	Weight Masse	Reference Reference
0.25	1725	194	167	0	117	0,7	8,7	101078C/L
	3450							
0.33	1725	194	168	0	117	0,8	8,2	101079C/L
	3600	213	172	0	na	0,9	9,5	D390
0.50	1725	201	169	0	117	1,0	10,9	100913C/L
	3450	212	172	0	na	0,75	11,4	110143C/L
0.75	1725	223	183	0	135	1,4	10	110034C/L
	3600	248	187	0	142	1,6	10,5	D392
1.00	1725	235	183	0	135	1,9	11,4	110035C/L
	3450	223	183	0	133	1,6	10,9	110181 ¹
1.50	1725	248	180	0	135	2,5	13,6	110444C/L
	3450	248	180	0	133	2,1	13,2	110917 ¹
2.00	1725	272	180	0	135	3,1	15,7	113026C/L
	3450	261	180	0	133	2,8	15,5	113927
3.00	1725							
	3450	273	180	0	135	4,0	17,1	114615

Specifications subject to change, we reserve the right to substitute motors, please advise sales dept of any specific requirements.
 Amp ratings are at the "high" voltage.

Footnotes

1. Dual rated 50/60hz (2850/3450 RPM) (1425/1725 RPM)
2. Dual rated 50/60hz (3000/3600 RPM) (1500/1800 RPM)
3. Intermittent Duty
4. Junction box in motor end housing
5. Modified to 56C face
6. Manual thermal protection
7. Red industrial motor
8. 230V only

MOTOR MOTEUR	575V, THREE PHASE SPECIFICATIONS - SPECIFICATION							
HP	RPM t/min	L	O	Y	AB	Amps Intensité	Weight Masse	Reference Reference
0.25	1725	194	167	0	117	0,5	6,8	101050C/L
	3450							
0.33	1725	194	167	0	117	0,6	8,7	101052C/L
	3600	na	175	0	131	0,8	9,5	K702
0.50	1725	201	169	0	117	na	na	101907C/L
	3600	248	187	0	142	0,9	na	K704
0.75	1725	223	183	0	135	1,1	10	110178C/L
	3600	248	187	0	142	1,3	na	K706
1.00	1725	248	180	0	136	1,4	14,1	114467 ¹
	3450	223	180	0	136	1,3	10,9	114468 ¹
1.50	1725	248	180	0	135	2,0	13,6	110893C/L
	3600	248	187	0	142	1,85	na	K721
2.00	1725	261	180	0	136	2,5	16,8	114327C/L
	3450	261	180	0	135	2,2	15,5	111611C/L
3.00	1800	324	187	0	142	3,4	20	G591
	3450	273	180	0	136	3,2	19,6	115597

Common Calculations and Conversion Factors

Pump Flow Output	HP Required for continuous duty.	Common Conversion Factors
$LPM = \frac{cm^3/rev \times RPM \times Eff(v)}{1000}$	$HP = \frac{LPM \times Bar}{402}$	$GPM = LPM / 3.785$
$GPM = \frac{cm^3/rev \times RPM \times Eff(v)}{3785}$	$HP = \frac{GPM \times PSI}{1542}$	$psi = Bar \times 14.5$
	Note! efficiency is already taken into account in above formulas.	$lbs = Kg \times 2.2$
		$ln^3 = cm^3 / 16.39$
		$HP = kW / 0.745$
		$CFM = (l/s) / 0.467$

Eff(v) may be estimated at between 0.93 and 0.98 Efficiency increases with pump size and RPM.

MICRO PUMP-MOTOR COMBINATIONS
MICRO GROUPES ELECTRO POMPES

3G

TYPE
TYPE

NEMA 56C FRAME



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REPLACEMENT PARTS - LISTING

REPLACEMENT PARTS - MICRO 3G PUMP MOTOR COMBINATIONS

MOTORS

AC	0.25 - 5.0 HP	(see pg. 14)
MF1	0,4 kW 12VDC	114223
MF2	0,4 kW 24VDC	114224
HF2	1,0 kW 24VDC	114225
AF1	0,9 Kw 12VDC	114226
AF2	1,2 kW 24VDC	114227

RELAYS

RELAY: 80 AMP - 12VDC	E5080303
RELAY: 80 AMP - 24VDC	E5074322
BRAID CONNECTOR	101809

COUPLINGS

COUPLING: DC	109515
COUPLING: 56C PUMP SIDE	E104846
COUPLING: 56C MOTOR	E104846-1

BELLHOUSING

BELLHOUSING: 3G 56C (AC Motors)	HPI-9472
BELLHOUSING: 3G AAN	K5096510

PUMPS

0.25 CC	P1AAN0025FL40C01
0.50 CC	P1AAN0050FL40C01
0.75 CC	P1AAN0075FL40C01
1.00 CC	P1AAN0100FL40C01
1.25 CC	P1AAN0125FL40C01
1.50 CC	P1AAN0150FL40C01
2.00 CC	P1AAN0200FL40C01

ADAPTORS

M14 X 1.5 TO #6 JIC	OM14-J6
M14 X 1.5 TO 1/4" NPT	OM14-N025
M14 X 1.5 TO #6 SAE	OM14-S6

SEAL KITS

SHAFT SEAL, NITRILE	103162
SEAL KIT, NITRILE	K5073819
SHAFT SEAL, VITON	105055
SEAL KIT, VITON	K5073820

PLEASE NOTE! THE PARTS LISTED ON THIS PAGE MAY DIFFER FOR UNITS ASSEMBLED IN FRANCE. PLEASE CONTACT HPI CANADA FOR FURTHER INFORMATION.



Integrated Pump/Motor valve units



Cartridge, Spool and CETOP 3 Valves



Micro and Mini Pump Motor Combinations



Pumps, Motors & Flow Dividers



Mini Powerpacks



Custom OEM Solutions



Micro Powerpacks