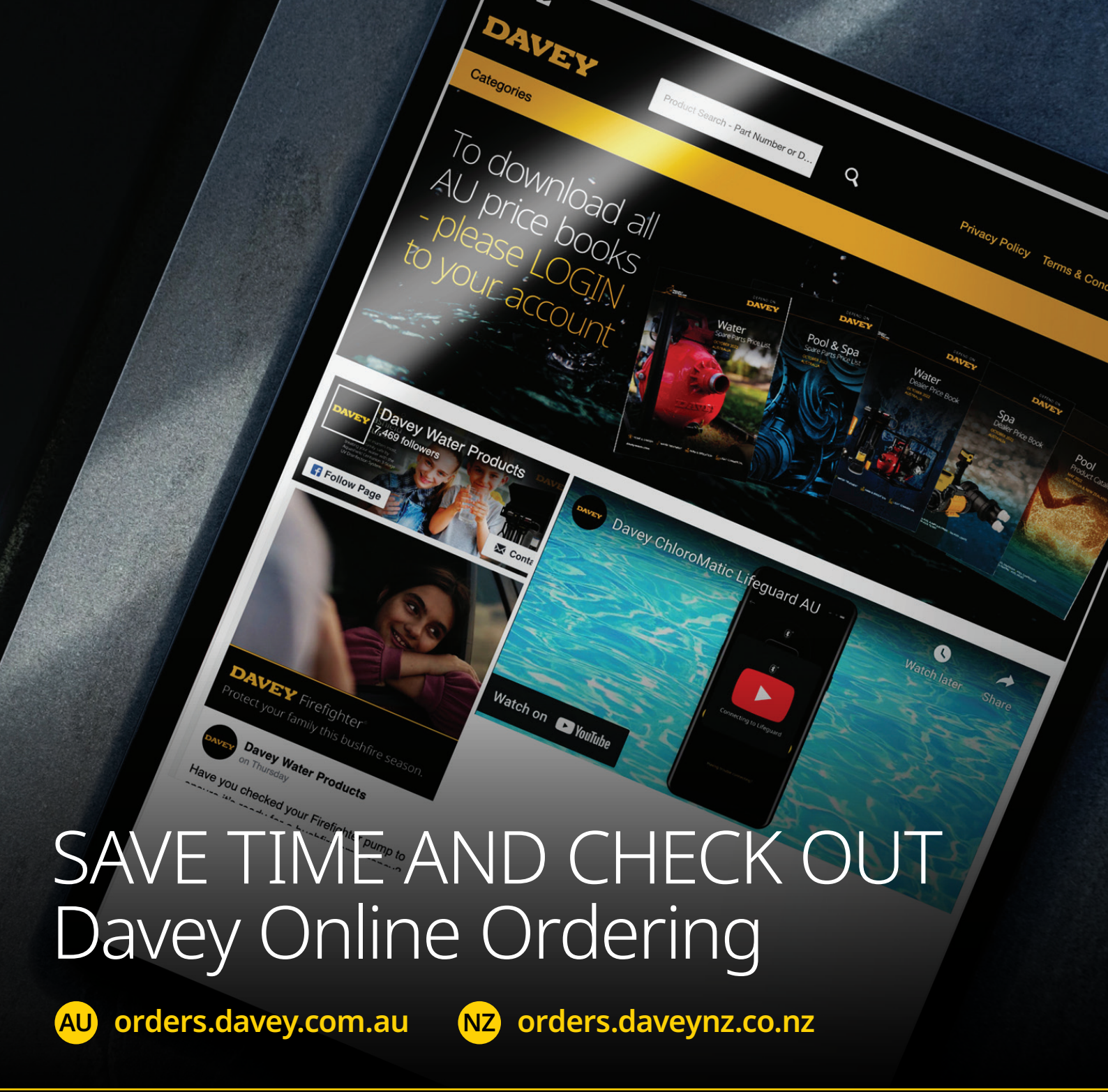
YOU CAN DEPEND ON
DAVEY

Groundwater Guide

Submersible Borehole Pumps





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COMPLETE KIT COMPONENT GUIDE FOR 100MM (4") BOREHOLE PUMPS							
Motor kW (P_2)	Davey Rewindable Motors				Cable Splice Kit		
	2 wire 1 phase	3 wire 1 phase	Starter (3 wire)	3 phase	2 wire 1 phase	3 wire 1 phase	3 phase
0.37	DM1037W2	DM1037	14020015	DM3037	31264	31263	31263
0.55	DM1055W2	DM1055	14020035	DM3055	31264	31263	31263
0.75	DM1075W2	DM1075	14020055	DM3075	31264	31263	31263
1.1	DM1110W2	DM1110	14020075	DM3110	31264	31263	31263
1.5		DM1150	14020090	DM3150		31263	31263
2.2		DM1220	14020095	DM3220		31263	31263
3.0				DM3300		31263	31263
4.0				DM3400			31263
5.5				DM3550			31263
7.5				DM3750			31263



4” Submersible Borehole Pumps & Motors





4” SUBMERSIBLE BOREHOLE PUMPS

Model Numbers: DPS1, 2, 3, 4, 6, 8, 10, 12

Davey DM range of rewindable oil filled motors have a proven worldwide reputation for reliability. Designed for flow rates up to 300 lpm and heads up to 235m.

GUARANTEE
2 YEARS

MOTORS
PG - 2001
KITS
PG - 9060

APPLICATIONS

- Domestic water supply
- Turf watering
- Irrigation
- Stock watering
- Dewatering
- Fountains

FEATURES AND BENEFITS

- Proven and reliable design for harsh conditions
- Manufactured from quality corrosion resistant materials for long life
- Specific impeller material selection and design ensures optimal performance in sandy bores
- DPS models feature independently floating centrifugal (radial) impellers to provide easy starting and long life – automatically adjusting to pumping conditions for each application
- Heavy duty stainless steel outer casing shell providing protection and accurate alignment of internal components
- High quality shaft bearings providing low friction and high wear resistance
- Pump and motor are easily serviceable
- Heavy duty cast stainless steel suction and discharge bowl with large durable lifting eye and built-in check valve for long life and ease of installation
- Strong hexagonal section drive shaft of premium stainless steel ensures positive impeller drive and longer life

Pump starts

The average number of starts per day over a period of months or years influences the life of a submersible pumping system. Excessive cycling affects the life of control components such as pressure switches, starters, relays and capacitors, plus splines and bearings. Rapid cycling can also cause motor overheating and winding failures.

The pump size, tank size and other controls should be selected to keep the starts per day as low as practical for longest life. The maximum allowable number of starts per hour is 30.

Motors should be allowed to run a minimum of one minute to dissipate heat build up from starting current.

Check valves

All Davey submersible pumps are fitted with a check valve.

OPERATING LIMITS	
Nominal flows	"1, 2, 3, 4, 6, 8, 10 & 12 m³/hr 35, 50, 70, 100, 135, 170 & 200 lpm"
Maximum flow	300 lpm (18 m³/hr)
Heads	up to 235 metres
Motors	0.37kW (0.5hp) to 7.5kW (10hp)
Maximum water temperature	35°C
Pumped liquid	Clean, thin, non-aggressive liquids without solid particles or fibres.
Max sand content	300g/m³ - not continuous
Operating position	Vertical to horizontal

TYPE KEY: COMPLETE PUMPS									
Example: KDPS2-07-037R21		K	DPS	1	-07	-037	R	2	1
Product Figuration	Complete Pump, Motor, Control box (where needed) and splice kit	X							
Pump Type	DPS		X						
Rated flow@ BEP (m³/hr)				X					
Dash separator with number of stages following					X				
Dash separator with kW designation						X			
Motor Type	R = Rewindable						X		
Wire number (+ earth)	2 wire or 3 wire							X	
Phase	1 phase or 3 phase								X

MATERIALS OF CONSTRUCTION	
PART	MATERIAL
Discharge	Cast 304 stainless steel
Impeller	Polycarbonate
Diffuser	Noryl GFN2
Shaft guide bearing	Nitrile Butadiene Rubber (NBR)
Shaft guide sleeve	304 stainless steel
Pump casing	304 stainless steel
Shaft	420 stainless steel
Coupling	304 stainless steel
Wear rings	304 stainless steel
Check valve	304 stainless steel with NBR sealing gasket
Cable guard	304 stainless steel
Fasteners	304 stainless steel
Suction cage	304 stainless steel
Suction strainer	304 stainless steel

CONTINUOUS FLOW RATES				
Model	Minimum		Maximum	
	lpm	m³/hr	lpm	m³/hr
DPS1	5	0.3	35	2.1
DPS2	20	1.2	60	3.6
DPS3	20	1.2	90	5.4
DPS4	40	2.4	100	6.0
DPS6	40	2.4	160	9.6
DPS8	80	4.8	200	12
DPS10	100	6.0	250	15
DPS12	150	9.0	300	18

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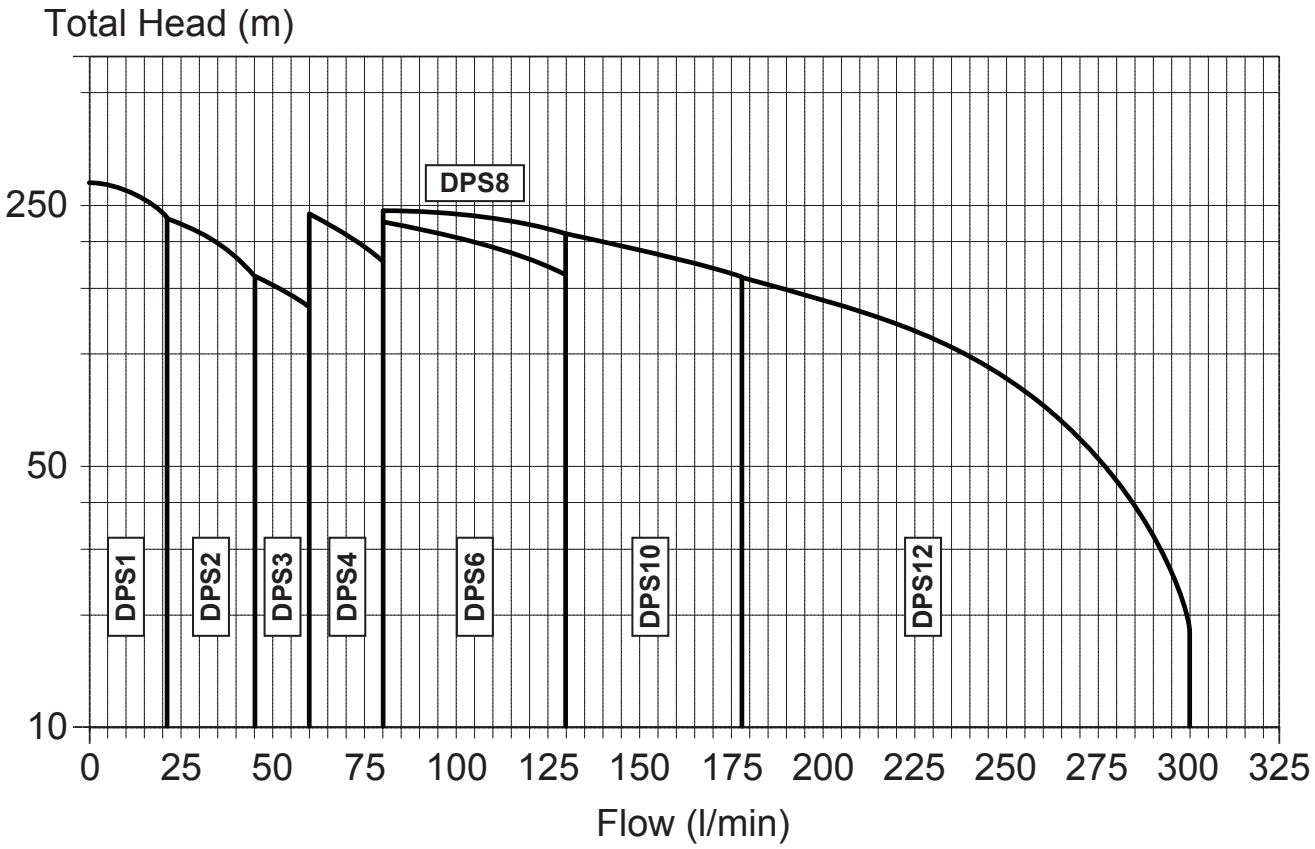

4” Submersible Borehole Pumps & Motors

ELECTRICAL DATA, DIMENSIONS (mm) & WEIGHT (kg)									
Model	Discharge BSP(f)	Motor Power (P_2)	Stages	Pump Details		Assembled Units - DM motors			
				Length (mm)	Weight (kg)	Single Phase 3 wire		Three Phase	
		kW		Max width: 100mm		Length (mm)	Weight (kg)	Length (mm)	Weight (kg)
DPS1-08	1¼”	0.37	8	366	4	691	11	–	–
DPS1-13		0.55	13	464	5	789	12.6	789	12
DPS1-17		0.75	17	542	6	892	14.7	867	13.6
DPS1-25		1.1	25	698	8	1083	18.3	1023	16.7
DPS1-34		1.5	34	873	11	1293	23	1258	21.4
DPS1-50		2.2	50	1185	15	1655	29.2	1605	27
DPS2-07		0.37	7	364	4	689	11	689	10.5
DPS2-10		0.55	10	430	5	755	12.6	755	12
DPS2-14		0.75	14	518	6	868	14.7	843	13.6
DPS2-21		1.1	21	672	7	1057	17.3	1022	15.7
DPS2-28		1.5	28	826	9	1246	21	1211	19.4
DPS2-41		2.2	41	1112	12	1582	26.2	1532	24
DPS3-07		0.55	7	364	4	689	11.6	689	11
DPS3-10		0.75	10	430	5	780	13.7	755	12.6
DPS3-14		1.1	14	518	6	903	16.3	868	14.7
DPS3-20		1.5	20	650	7	1070	19	1035	17.4
DPS3-29		2.2	29	848	10	1318	24.2	1268	22
DPS4-06		0.55	6	342	4	667	11.6	667	11
DPS4-08		0.75	8	386	4.5	736	13.2	711	12.1
DPS4-12		1.1	12	474	6	859	16.3	824	14.7
DPS4-16		1.5	16	562	7	982	19	947	17.4
DPS4-23		2.2	23	716	9	1186	23.2	1136	21
DPS4-32#		3	32	914	12	–	–	1332	24.8
DPS4-42#		4	42	1132	15	–	–	1600	30.3
DPS6-04	2”	0.55	4	330	3	655	10.6	655	10
DPS6-06		0.75	6	390	4	740	12.7	715	11.6
DPS6-09		1.1	9	480	5	865	15.3	830	13.7
DPS6-12		1.5	12	570	6	990	18	955	16.4
DPS6-17		2.2	17	720	8	1190	22.2	1140	20
DPS6-23		3	23	900	10	–	–	1318	22.8
DPS6-31#		4	31	1140	13	–	–	1608	28.3
DPS6-42#		5.5	42	1470	16	–	–	1938	31.3
DPS8-04		0.75	4	330	3	680	11.7	655	10.6
DPS8-07		1.1	7	420	4	805	14.3	770	12.7
DPS8-09		1.5	9	480	5	900	17	865	15.4
DPS8-13		2.2	13	600	6	1070	20.2	1020	18
DPS8-18		3	18	750	8	–	–	1168	20.8
DPS8-24		4	24	930	10	–	–	1398	25.3
DPS8-31#		5.5	31	1140	12	–	–	1608	27.3
DPS8-42#		7.5	42	1470	16	–	–	2008	34.9
DPS10-06A		1.1	6	456	4	848	12	818	12
DPS10-08A		1.5	8	538	5	960	13	930	13
DPS10-12A		2.2	12	702	7	1169	15	1154	15
DPS10-16A		3	16	866	8	–	–	1423	19
DPS10-22A		4	22	1112	10	–	–	1709	22
DPS10-30A		5.5	30	1440	13	–	–	2138	27
DPS10-40A		7.5	40	4850	17	–	–	2668	32
DPS12-05A		1.1	5	415	4	807	12	777	12
DPS12-07A		1.5	7	497	5	919	13	889	13
DPS12-11A		2.2	11	661	6	1128	15	1113	15
DPS12-15A		3	15	825	8	–	–	1382	19
DPS12-20A		4	20	1030	10	–	–	1627	22
DPS12-27A		5.5	27	1317	13	–	–	2015	27
DPS12-37A		7.5	37	1727	17	–	–	2545	37

Denotes: Non-stocked model. Delivery to confirmation at time of order.

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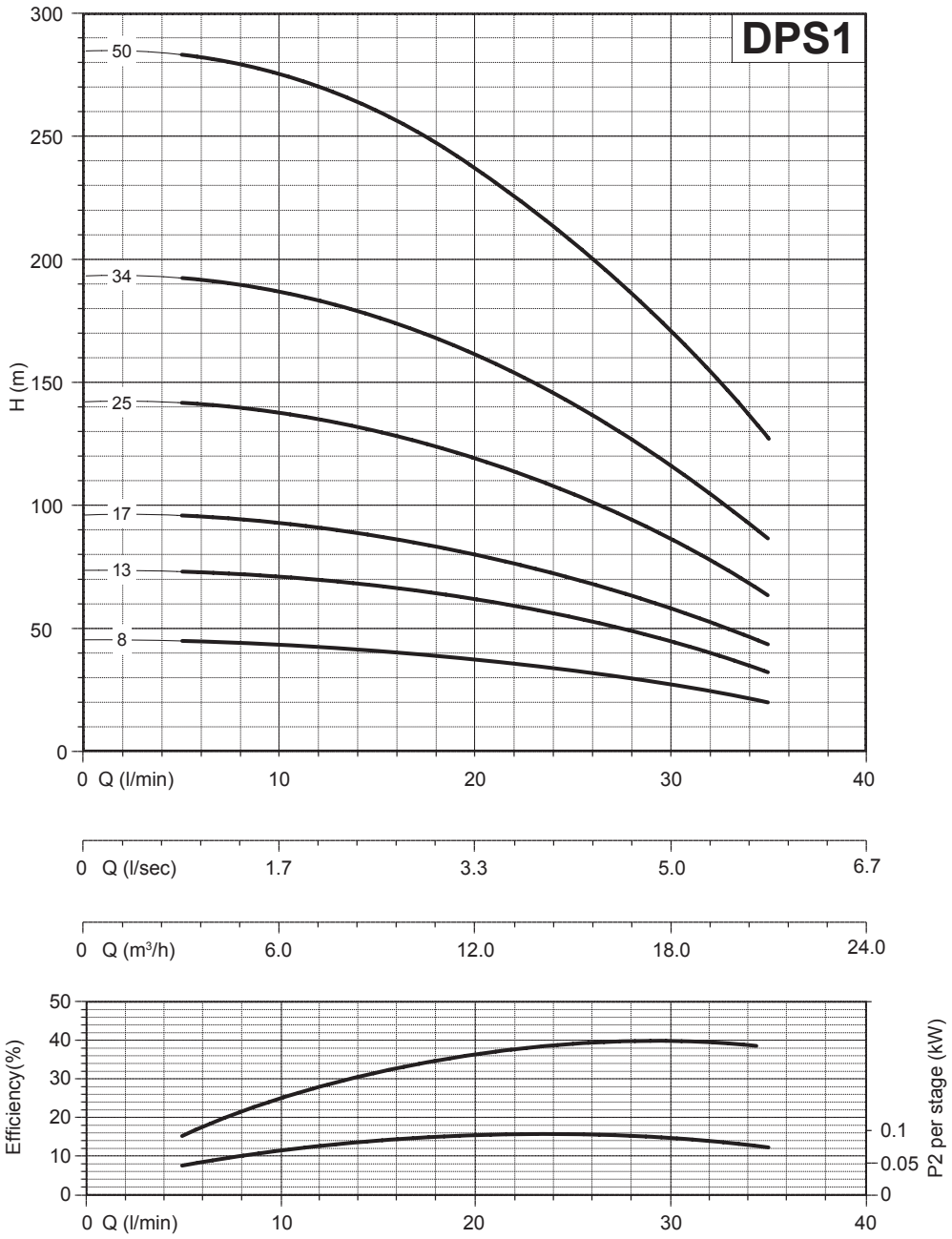

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS1-08	0.37	2W 1ph	KDPS1-08-037R21	DM1037W2	-	31264
		3W 1ph	KDPS1-08-037R31	DM1037	1420015	31263
		3ph	KDPS1-08-037R33	DM3037	-	31263
DPS1-13	0.55	2W 1ph	KDPS1-13-055R21	DM1055W2	-	31264
		3W 1ph	KDPS1-13-055R31	DM1055	14020035	31263
		3ph	KDPS1-13-055R33	DM3055	-	31263
DPS1-17	0.75	2W 1ph	KDPS1-17-075R21	DM1075W2	-	31264
		3W 1ph	KDPS1-17-075R31	DM1075	14020055	31263
		3ph	KDPS1-17-075R33	DM3075	-	31263
DPS1-25	1.1	2W 1ph	KDPS1-25-11R21	DM1110W2	-	31264
		3W 1ph	KDPS1-25-11R31	DM1110	14020075	31263
		3ph	KDPS1-25-11R33	DM3110	-	31263
DPS1-34	1.5	3W 1ph	KDPS1-34-15R31	DM1150	14020090	31263
		3ph	KDPS1-34-15R33	DM3150	-	31263
DPS1-50	2.2	3W 1ph	KDPS1-50-22R31	DM1220	14020095	31263
		3ph	KDPS1-50-22R33	DM3220	-	31263

4” Submersible Borehole Pumps & Motors

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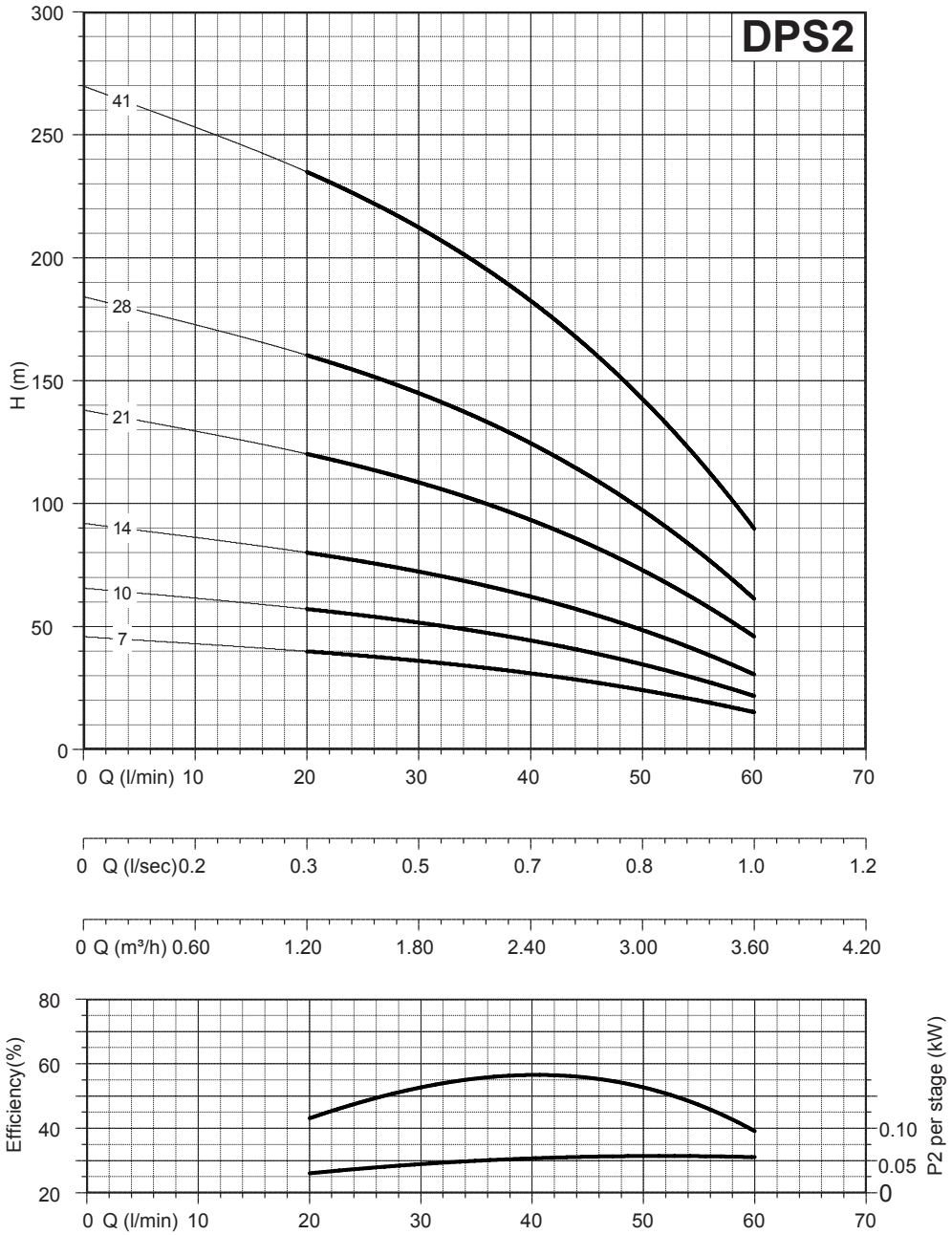

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS2-07	0.37	2W 1ph	KDPS2-07-037R21	DM1037W2	-	31264
		3W 1ph	KDPS2-07-037R31	DM1037	1420015	31263
		3ph	KDPS2-07-037R33	DM3037	-	31263
DPS2-10	0.55	2W 1ph	KDPS2-10-055R21	DM1055W2	-	31264
		3W 1ph	KDPS2-10-055R31	DM1055	14020035	31263
		3ph	KDPS2-10-055R33	DM3055	-	31263
DPS2-14	0.75	2W 1ph	KDPS2-14-075R21	DM1075W2	-	31264
		3W 1ph	KDPS2-14-075R31	DM1075	14020055	31263
		3ph	KDPS2-14-075R33	DM3075	-	31263
DPS2-21	1.1	2W 1ph	KDPS2-21-11R21	DM1110W2	-	31264
		3W 1ph	KDPS2-21-11R31	DM1110	14020075	31263
		3ph	KDPS2-21-11R33	DM3110	-	31263
DPS2-28	1.5	3W 1ph	KDPS2-28-15R31	DM1150	14020090	31263
		3ph	KDPS2-28-15R33	DM3150	-	31263
DPS2-41	2.2	3W 1ph	KDPS2-41-22R31	DM1220	14020095	31263
		3ph	KDPS2-41-22R33	DM3220	-	31263

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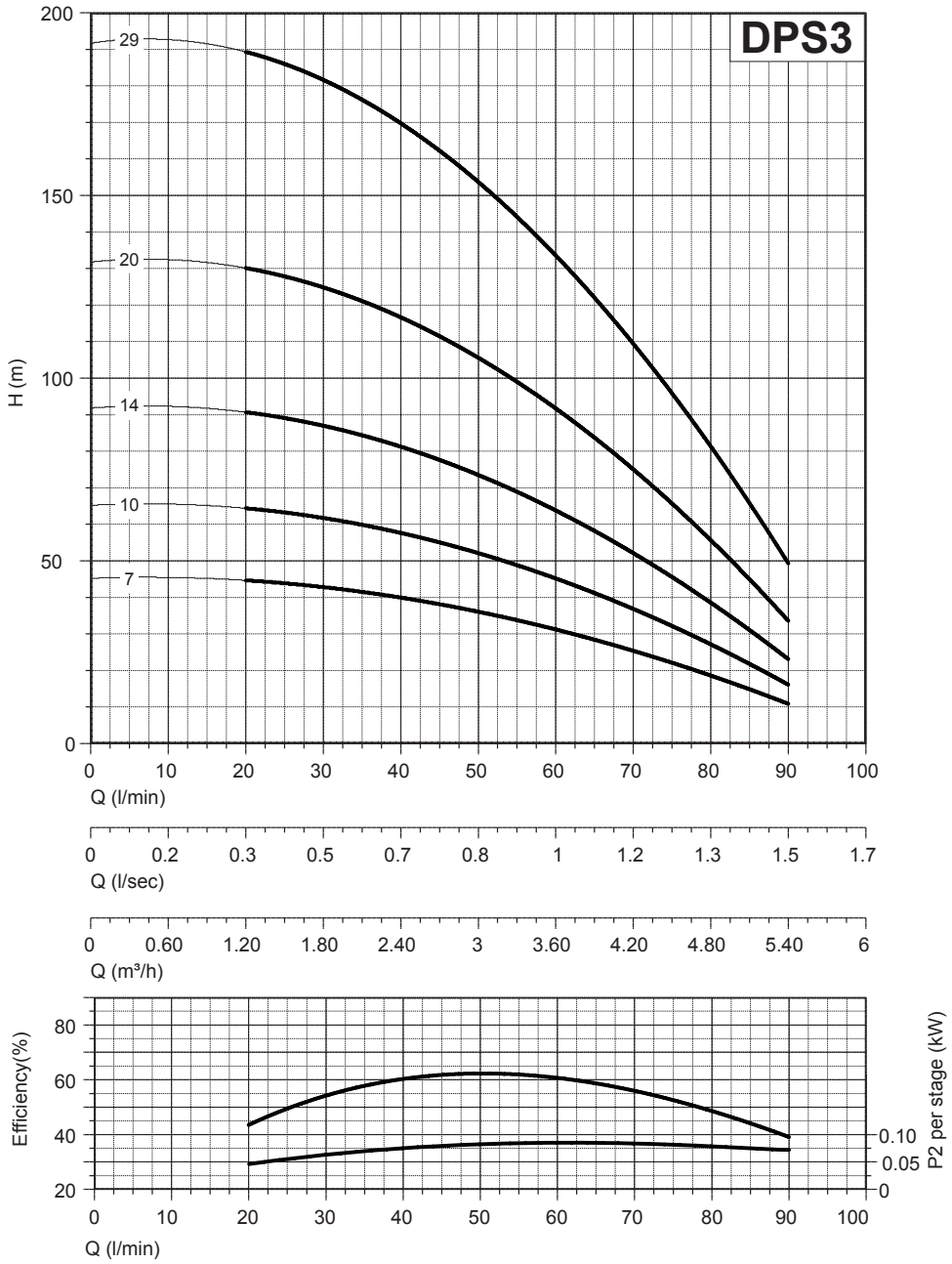

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS3-07	0.55	2W 1ph	KDPS3-07-055R21	DM1055W2	-	31264
		3W 1ph	KDPS3-07-055R31	DM1055	14020035	31263
		3ph	KDPS3-07-055R33	DM3055	-	31263
DPS3-10	0.75	2W 1ph	KDPS3-10-075R21	DM1075W2	-	31264
		3W 1ph	KDPS3-10-075R31	DM1075	14020055	31263
		3ph	KDPS3-10-075R33	DM3075	-	31263
DPS3-14	1.1	2W 1ph	KDPS3-14-11R21	DM1110W2	-	31264
		3W 1ph	KDPS3-14-11R31	DM1110	14020075	31263
		3ph	KDPS3-14-11R33	DM3110	-	31263
DPS3-20	1.5	3W 1ph	KDPS3-20-15R31	DM1150	14020090	31263
		3ph	KDPS3-20-15R33	DM3150	-	31263
DPS3-29	2.2	3W 1ph	KDPS3-29-22R31	DM1220	14020095	31263
		3ph	KDPS3-29-22R33	DM3220	-	31263

4” Submersible Borehole Pumps & Motors

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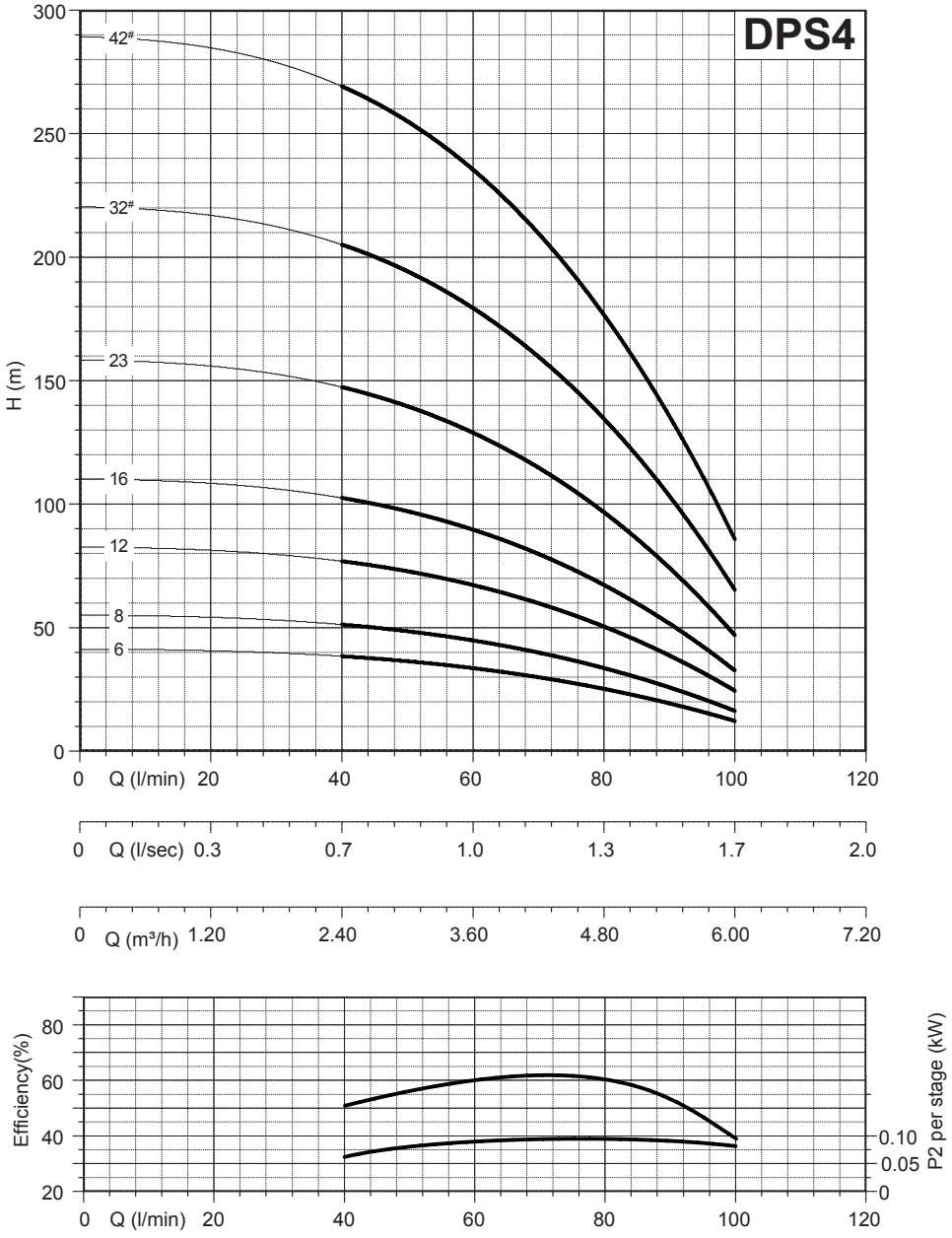

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS4-06	0.55	2W 1ph	KDPS4-06-055R21	DM1055W2	-	31264
		3W 1ph	KDPS4-06-055R31	DM1055	14020035	31263
		3ph	KDPS4-06-055R33	DM3055	-	31263
DPS4-08	0.75	2W 1ph	KDPS4-08-075R21	DM1075W2	-	31264
		3W 1ph	KDPS4-08-075R31	DM1075	14020055	31263
		3ph	KDPS4-08-075R33	DM3075	-	31263
DPS4-12	1.1	2W 1ph	KDPS4-12-11R21	DM1110W2	-	31264
		3W 1ph	KDPS4-12-11R31	DM1110	14020075	31263
		3ph	KDPS4-12-11R33	DM3110	-	31263
DPS4-16	1.5	3W 1ph	KDPS4-16-15R31	DM1150	14020090	31263
		3ph	KDPS4-16-15R33	DM3150	-	31263
DPS4-23	2.2	3W 1ph	KDPS4-23-22R31	DM1220	14020095	31263
		3ph	KDPS4-23-22R33	DM3220	-	31263
DPS4-32	3	3ph	KDPS4-32-30R33	DM3300	-	31263
DPS4-42	4	3ph	KDPS4-42-40R33	DM3400	-	31263

Denotes: Non-stocked model. Delivery subject to confirmation at time of order.

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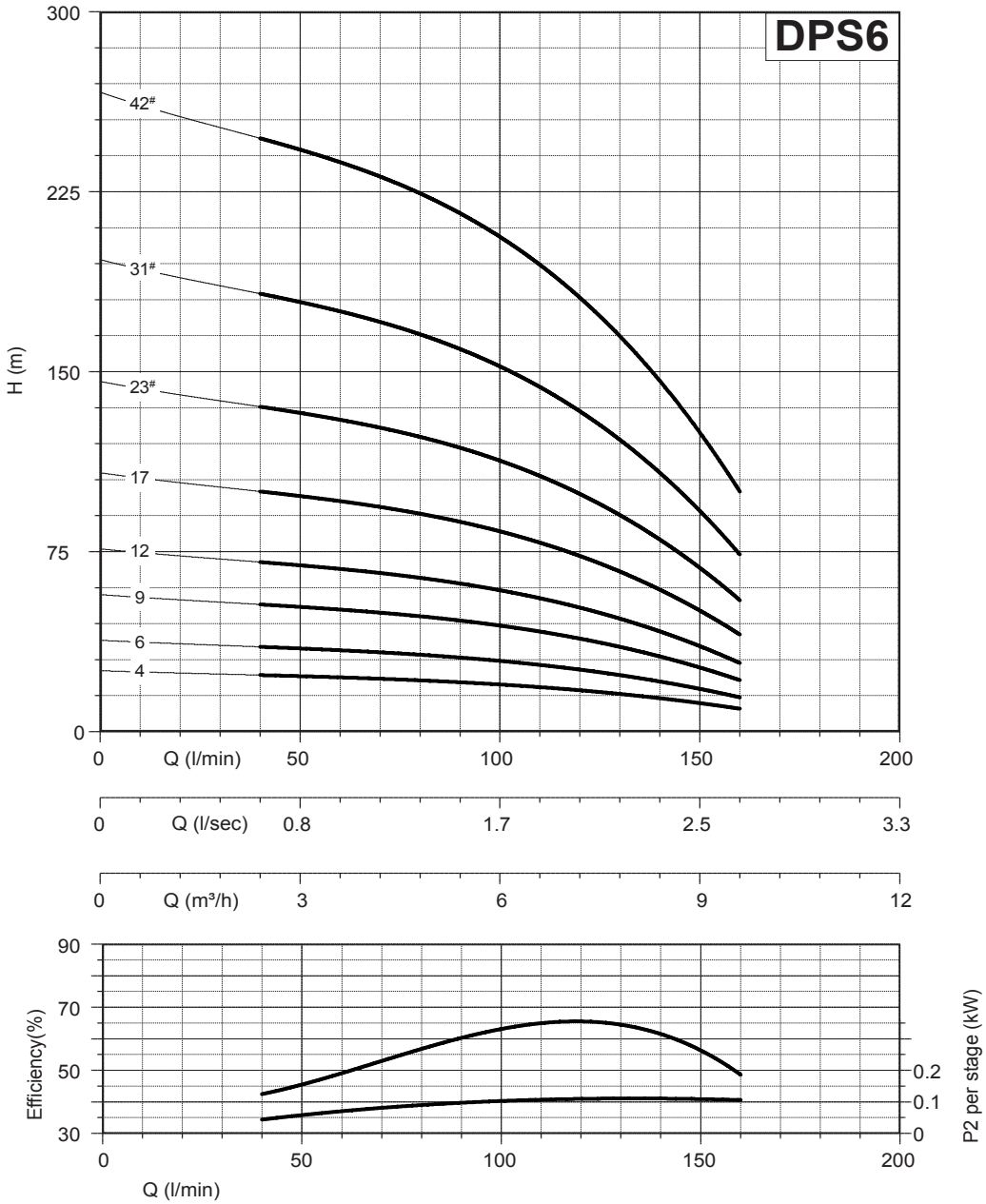

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS6-04	0.55	2W 1ph	KDPS6-04-055R21	DM1055W2	-	31264
		3W 1ph	KDPS6-04-055R31	DM1055	14020035	31263
		3ph	KDPS6-04-055R33	DM3055	-	31263
DPS6-06	0.75	2W 1ph	KDPS6-06-075R21	DM1075W2	-	31264
		3W 1ph	KDPS6-06-075R31	DM1075	14020055	31263
		3ph	KDPS6-06-075R33	DM3075	-	31263
DPS6-09	1.1	2W 1ph	KDPS6-09-11R21	DM1110W2	-	31264
		3W 1ph	KDPS6-09-11R31	DM1110	14020075	31263
		3ph	KDPS6-09-11R33	DM3110	-	31263
DPS6-12	1.5	3W 1ph	KDPS6-12-15R31	DM1150	14020090	31263
		3ph	KDPS6-12-15R33	DM3150	-	31263
DPS6-17	2.2	3W 1ph	KDPS6-17-22R31	DM1220	14020095	31263
		3ph	KDPS6-17-22R33	DM3220	-	31263
DPS6-23#	3	3ph	KDPS6-23-30R33	DM3300	-	31263
DPS6-31#	4	3ph	KDPS6-31-40R33	DM3400	-	31263
DPS6-42#	5.5	3ph	KDPS6-42-55R33	DM3550	-	31263

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4” Submersible Borehole Pumps & Motors

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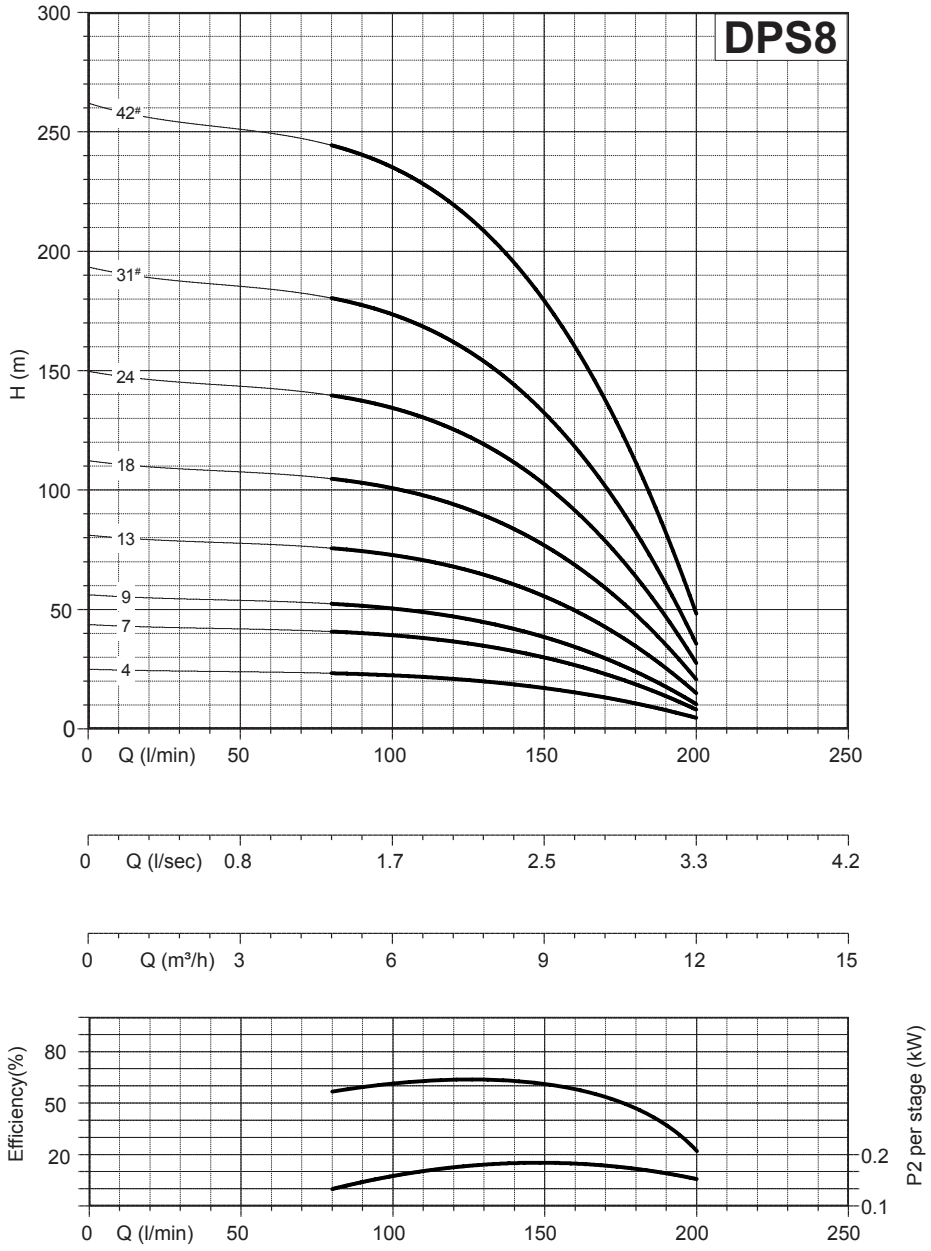

Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS8-04	0.75	2W 1ph	KDPS8-04-075R21	DM1075W2	-	31264
		3W 1ph	KDPS8-04-075R31	DM1075	14020055	31263
		3ph	KDPS8-04-075R33	DM3075	-	31263
DPS8-07	1.1	2W 1ph	KDPS8-07-11R21	DM1110W2	-	31264
		3W 1ph	KDPS8-07-11R31	DM1110	14020075	31263
		3ph	KDPS8-07-11R33	DM3110	-	31263
DPS8-09	1.5	3W 1ph	KDPS8-09-15R31	DM1150	14020090	31263
		3ph	KDPS8-09-15R33	DM3150	-	31263
DPS8-13	2.2	3W 1ph	KDPS8-13-22R31	DM1220	14020095	31263
		3ph	KDPS8-13-22R33	DM3220	-	31263
DPS8-18	3	3ph	KDPS8-18-30R33	DM3300	-	31263
DPS8-24	4	3ph	KDPS8-24-40R33	DM3400	-	31263
DPS8-31#	5.5	3ph	KDPS8-31-55R33	DM3550	-	31263
DPS8-42#	7.5	3ph	KDPS8-42-75R33	DM3750	-	31263

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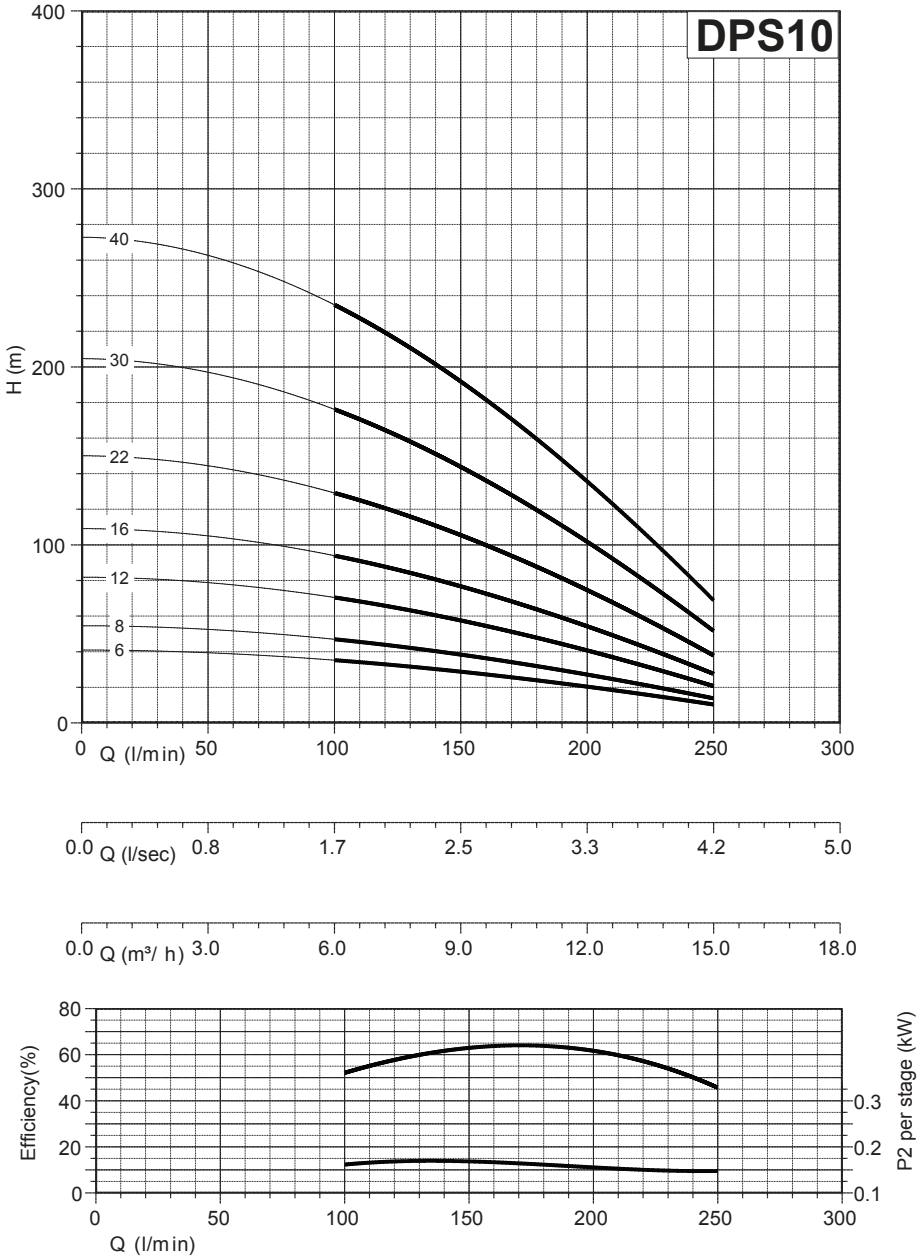
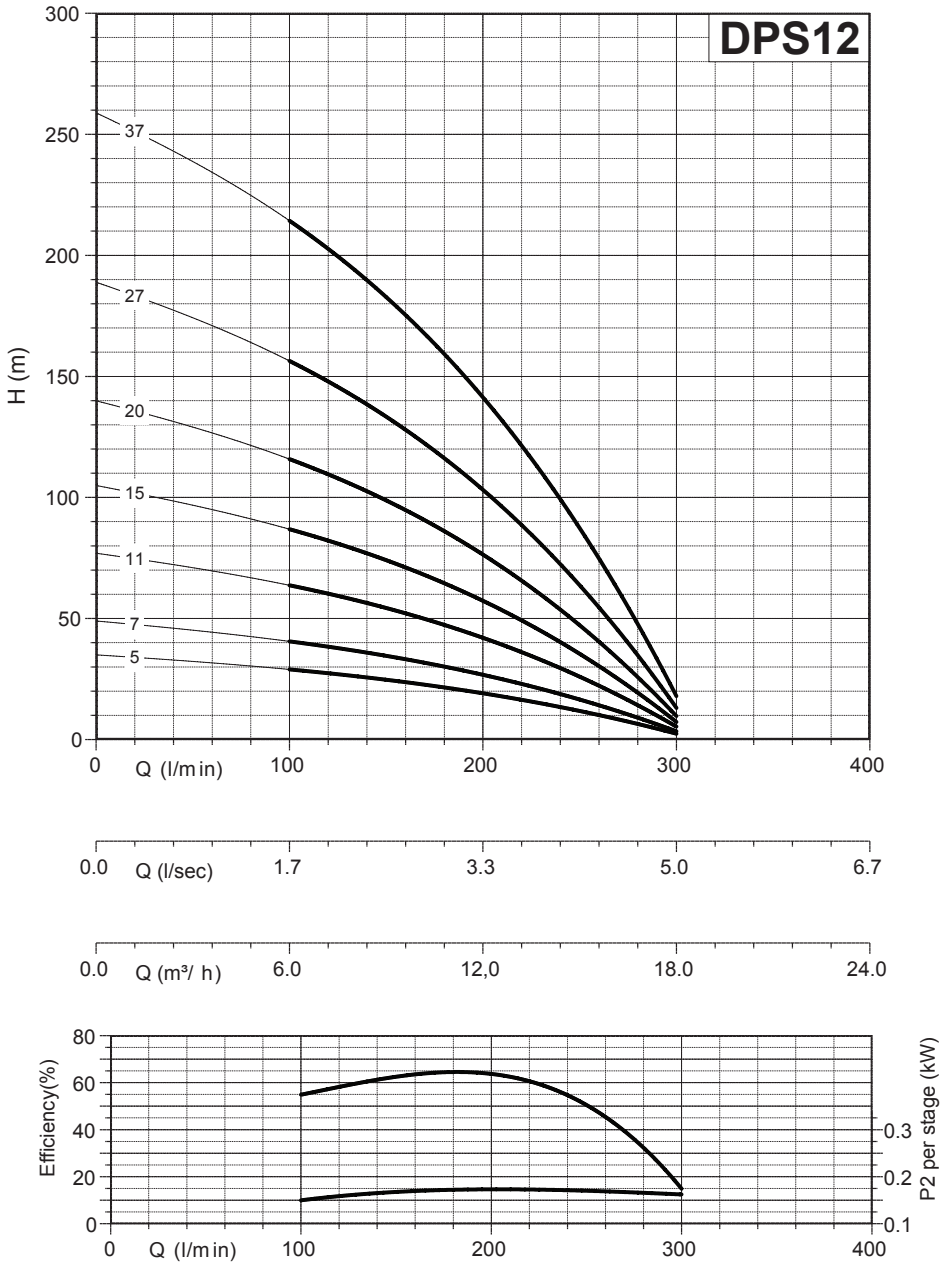


Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS10-06A	1.1	2W 1ph	KDPS10-06-11R21	DM1110W2	-	31264
		3W 1ph	KDPS10-06-11R31	DM1110	14020075	31263
		3ph	KDPS10-06-11R33	DM3110	-	31263
DPS10-08A	1.5	3W 1ph	KDPS10-08-15R31	DM1150	14020090	31263
		3ph	KDPS10-08-15R33	DM3150	-	31263
DPS10-12A	2.2	3W 1ph	KDPS10-12-22R31	DM1220	14020095	31263
		3ph	KDPS10-12-22R33	DM3220	-	31263
DPS10-16A	3	3ph	KDPS10-16-30R33	DM3300	-	31263
DPS10-22A	4	3ph	KDPS10-22-40R33	DM3400	-	31263
DPS10-30A	5.5	3ph	KDPS10-30-55R33	DM3550	-	31263
DPS10-40A	7.5	3ph	KDPS10-40-75R33	DM3750	-	31263

4” Submersible Borehole Pumps & Motors

HYDRAULIC PERFORMANCE



Liquid End Model	Motor Power (P2) kW	Motor type	Pump, Motor, and Control Box Kit	Kit components		
				DM Motor	Starter Box – PSC	Cable Splice Kit
DPS12-05A	1.1	2W 1ph	KDPS12-05-11R21	DM1110W2	-	31264
		3W 1ph	KDPS12-05-11R31	DM1110	14020075	31263
		3ph	KDPS12-05-11R33	DM3110	-	31263
DPS12-07A	1.5	3W 1ph	KDPS12-07-15R31	DM1150	14020090	31263
		3ph	KDPS12-07-15R33	DM3150	-	31263
DPS12-11A	2.2	3W 1ph	KDPS12-11-22R33	DM1220	14020095	31263
		3ph	KDPS12-11-22R33	DM3220	-	31263
DPS12-15A	3	3ph	KDPS12-15-30R33	DM3300	-	31263
DPS12-20A	4	3ph	KDPS12-20-40R33	DM3400	-	31263
DPS12-27A	5.5	3ph	KDPS12-27-55R33	DM3550	-	31263
DPS12-37A	7.5	3ph	KDPS12-37-75R33	DM3750	-	31263

4” Submersible Borehole Pumps & Motors

DAVEY



DAVEY 4” SUBMERSIBLE BOREHOLE MOTORS

- Rewindable (DM) motors to suit 4" borehole pumps
- Choice of 2-wire, 3-wire (240V, 50Hz) and 3 phase (415V, 50Hz) motors
- 304 stainless steel construction for excellent corrosion resistance
- Comes standard with a hard face mechanical seal (Silicon Carbide/Ceramic) for increased motor life
- Sand slinger protection to help inhibit sand from entering the motor for increased reliability
- Removable cable connector for easy maintenance
- 4" NEMA standard coupling dimensions for easy assembly to all 4" borehole pumps

GUARANTEE
2 YEARS

MOTORS
PG - 2030
KITS
PG - 9060

Davey DM range of rewindable oil filled motors have a proven worldwide reputation for reliability.

Selecting the best motor for a particular application means considering not only the immediate up front purchase price but taking into consideration:

- The motor’s long term ability to support the pump over the entire operating range
- Its ability to operate at the required water temperature and velocity presented by the installation

These high-quality DM model submersible motors are designed purely for operation in and under water as they depend on the surrounding water to carry away the heat that the motor generates.

The most common cause of failure in a submersible motor is overheating so making the correct assessment before selection and installation is critical. This should as a minimum involve checking:

- The ambient water temperature
- The water velocity passing the motor in the borehole
- The actual supply voltage at the bore-head
- The likelihood of voltage surges and spikes

When replacing a motor it is always good practice to check out that the initial installation was carried out correctly and that there are no evidence of excessive hydraulic load. An oversized, or wrongly size pump fitted to the motor will also compromise motor life. Ensure that the motor is not being asked to switch on and off too frequently. This is called cycling and will lead to shortened motor and pump life.

The Davey DM submersible motors are robust motors based on technology proven worldwide for reliable and long operation. By making a correct assessment of the installation, an experienced Davey Dealer can help make sure the most suitable motor is chosen so that long term the owner avoids having to pay extra for motor failure, extended down times, repeat repairs and higher maintenance cost.

The robust and strong design of the Davey DM motor makes it the recommended choice where installations may experience high voltage drops or potential high overloading. It is rewindable and serviceable.

DM – REWINDABLE MOTOR			
MOTOR OPERATING LIMITS	230V - 2 Wire	230V - 3 Wire	3 Phase
Horizontal installation	✓		
Maximum immersion depth	150m		
Maximum water temperature	35°C		
Liquid pH range	5.8<x>8.6		
Maximum starts per hour	30		
Voltage tolerance ±	±10%		

TYPE KEY: MOTORS								
Example		K	D	M	1	0	7	5
Product Figuration	Complete Motor and Control box	X						
Motor Type	DM Rewindable		X	X				
Phase	1 or 3				X			
kW	0.37 to 7.50					X	X	X

230V – 2 wire Single Phase			
kW	Motor & Control Box Kit	Motor	Control Box – PSC
0.37	*	DM1037W2	*
0.55	*	DM1055W2	*
0.75	*	DM1075W2	*
1.10	*	DM1110W2	*

230V – 3 wire Single Phase			
kW	Motor and Control Box KIT	Motor	Control Box – PSC
0.37	KDM1037	DM1037	14020015
0.55	KDM1055	DM1055	14020035
0.75	KDM1075	DM1075	14020055
1.10	KDM1110	DM1110	14020075
1.50	KDM1150	DM1150	14020090
2.20	KDM1220	DM1220	14020095

415V Three Phase			
kW	Motor & Control Box Kit	Motor	Control Box – PSC
0.37	*	DM3037	*
0.55	*	DM3055	*
0.75	*	DM3075	*
1.10	*	DM3110	*
1.50	*	DM3150	*
2.20	*	DM3220	*
3.00	*	DM3300	*
4.00	*	DM3400	*
5.50	*	DM3550	*
7.50	*	DM3750	*

4” Submersible Borehole Pumps & Motors

DM – REWINDABLE MOTOR SPECIFICATIONS																	
Part No.	Motor Size kW	Diameter		Run	Start	Efficiency @ Full Load	RPM	Cos	Ts/Tn	R (main) Ω	R (aux.) Ω	C start µF	Thrust N	Mechanical Seal	Weight Kg	Length mm	Cable m
		Nom	mm	Amps													
2 Wire, Single Phase																	
DM1037W2	0.37	4"	96	3.9	10.2	46%	2860	0.93	1.20	8.73	*	20	1500	Hard Face - Sic/Al	7.0	325	1.75
DM1055W2	0.55	4"	96	4.8	13.6	55%	2820	0.86	0.70	6.88	*	25	1500	Hard Face - Sic/Al	7.6	325	1.75
DM1075W2	0.75	4"	96	6.0	18.5	57%	2830	0.95	0.70	4.49	*	30	1500	Hard Face - Sic/Al	8.7	350	1.75
DM1110W2	1.10	4"	96	7.5	26.0	70%	2820	0.86	0.60	3.44	*	30	1500	Hard Face - Sic/Al	10.3	385	1.75
3 Wire, Single Phase																	
DM1037	0.37	4"	96	3.4	10.8	53%	2860	0.94	1.0	8.70	18.35	20	1500	Hard Face - Sic/Al	7.0	325	1.75
DM1055	0.55	4"	96	4.2	13.9	60%	2855	0.92	0.87	6.48	11.30	25	1500	Hard Face - Sic/Al	7.6	325	1.75
DM1075	0.75	4"	96	5.6	18.5	62%	2855	0.92	0.67	4.64	8.08	35	1500	Hard Face - Sic/Al	8.7	350	1.75
DM1110	1.10	4"	96	7.8	23.0	66%	2855	0.98	0.65	3.21	6.30	40	1500	Hard Face - Sic/Al	10.3	385	1.75
DM1150	1.50	4"	96	10.3	38.7	68%	2855	0.88	0.55	2.32	4.50	60	1500	Hard Face - Sic/Al	12.0	420	1.75
DM1220	2.20	4"	96	14.6	43.5	69%	2820	0.94	0.48	1.82	3.26	80	1500	Hard Face - Sic/Al	14.2	470	2.50
3 Phase																	
DM3037	0.37	4"	96	1.3	6.2	60%	2840	0.72	2.90	35.89	*	*	1500	Hard Face - Sic/Al	6.5	325	1.75
DM3055	0.55	4"	96	1.9	8.5	62%	2830	0.71	3.10	28.60	*	*	1500	Hard Face - Sic/Al	7.0	325	1.75
DM3075	0.75	4"	96	2.4	10.9	66%	2830	0.71	3.10	19.79	*	*	1500	Hard Face - Sic/Al	7.6	325	1.75
DM3110	1.10	4"	96	3.2	14.0	73%	2820	0.70	3.20	14.30	*	*	1500	Hard Face - Sic/Al	8.7	350	1.75
DM3150	1.50	4"	96	4.4	17.0	73%	2820	0.70	3.10	9.82	*	*	1500	Hard Face - Sic/Al	10.4	385	1.75
DM3220	2.20	4"	96	5.8	25.0	75%	2820	0.78	3.10	6.93	*	*	1500	Hard Face - Sic/Al	12.0	420	2.50
DM3300	3.00	4"	96	5.8	25.0	74%	2820	0.79	2.9	9.3	*	*	2500	Hard Face - Sic/Al	12.8	418	2.50
DM3400	4.00	4"	96	9.8	49.0	76%	2825	0.82	3.00	3.86	*	*	2500	Hard Face - Sic/Al	15.3	468	2.50
DM3550	5.50	4"	96	13.5	57.0	78%	2820	0.85	3.00	2.81	*	*	2500	Hard Face - Sic/Al	18.6	538	3.00
DM3750	7.50	4"	96	19.0	77.0	79%	2820	0.80	3.20	2.09	*	*	4400	Hard Face - Sic/Al	27.0	810	4.00

NOTE: 3 wire, single phase motor does not have in-built capacitor and require a starter box.
3 phase motor must be connected with an M10 rated overload.
ALL data at standard AS/NZS voltages, ie. 1Ø 230V 50Hz or 400V 50Hz

	2 Wire Single Phase Motors	3 Wire Single Phase Motors (with Standard Starter Box included)
Motor kW (P_2)	Davey Rewindable Motor Only	Davey Rewindable Motor
0.37	DM1037W2	KDM1037
0.55	DM1055W2	KDM1055
0.75	DM1075W2	KDM1075
1.10	DM1110W2	KDM1110
1.50	–	KDM1150
2.20	–	KDM1220

3 Wire Single Phase Motors - Motor and Starter purchased separately		
Motor kW (P_2)	Davey Rewindable Motor Only	Standard Starter Box
0.37	DM1037	14020015
0.55	DM1055	14020035
0.75	DM1075	14020055
1.10	DM1110	14020075
1.50	DM1150	14020090
2.20	DM1220	14020095

3 Phase Motors	
Motor kW (P_2)	Davey Rewindable Motor Only
0.37	DM3037
0.55	DM3055
0.75	DM3075
1.10	DM3110
1.50	DM3150
2.20	DM3220
3.00	DM3300
4.00	DM3400
5.50	DM3550
7.50	DM3750

Control Boxes & Panels

DAVEY

DAVEY CONTROL BOXES - SINGLE PHASE 230 VOLT

GUARANTEE 1 YEAR

PG - 2035

Suitable for Submersible Borehole, Sump and Davey single phase Surface Pumps

- Providing Manual-off-Auto control in an IP56 enclosure with cable grommet knock-outs
- Boxes include run light and 230 volt control circuit for pressure, float or similar switch

Model No.	Description
FSB221	To suit single phase motors to 2.2kW

DAVEY CONTROL BOXES - 3 PHASE 415 VOLT

PG - 2035

Suitable for Submersible Borehole, Sump and Davey 3 phase Surface Pumps (e.g. Davey Dynaflo, VM Series, HM Series etc.)

- Providing Manual-off-Auto control in an IP56 enclosure
- Boxes include adjustable thermal overloads with run light, surge arrestors and a 230 volt control circuit for pressure, or similar switch
- Overloads must be set to suit motor, Contactor is DOL only – check local requirements especially for 5.5kW and above Check amp rating for each motor as amp rating changes depending on type and brand of motor

Part No.	Amps	To suit Davey Borehole Motors	To suit Surface Pump Motors	To suit Sump Pumps
CB3075	1.6 - 2.4	0.55 & 0.75kW	0.75 & 1.1kW	DT08
CB3150	2.4 - 4.0	1.1kW	62103 & 1.5kW	DT15
CB3220	4.0 - 6.0	1.5 & 2.2kW	62203, 165S/D, PJ240, Mukmova 2.2 & 3.0kW	DT22
CB3370	6.0 - 9.0	–	62303 & 4.0kW	DT37
CB3750	10.0 - 16.0	4.0kW	5.5 & 7.5kW	DT55

CABLE SPLICE KITS – HEATSHRINK

PG - 2035

Part No.	Description
30609	3 Wire, 6 - 10mm^2
31263	3 Wire up to 6mm^2
31264	2 Wire up to 6mm^2

BOREHOLE CAPS

PG - 2035

Part No.	Description
BC32	BSP32, galvanised, 230mm OD
BC40	BSP40, galvanised, 230mm OD
BC50	BSP50, galvanised, 230mm OD
BC65	BSP65, galvanised, 230mm OD
BC80	BSP80, galvanised, 230mm OD



BOREHOLE MOTOR PROTECTION CONTROL PANELS

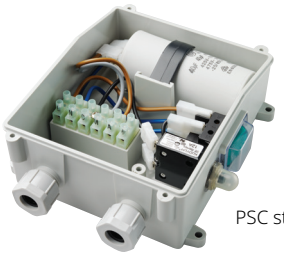
PG - 2035

- Single and three phase submersible pump control and protection
- Monitoring of current and voltage to ensure motors are protected from overload, underload and dry running
- Three phase models offer additional protection against phase loss / imbalance and incorrect phase sequence protection (direction of rotation)
- Maximum protection without level electrodes or level relays
- Can be used on some surface mounted and three phase sump pumps – contact Davey for advice

Part No.	Description	Phase	Wire	Suits kW Rating	Suit Davey Borehole Motors
CBM2	Fanox single phase Pump Protection Unit	1	2 & 3 Wire	0.37 - 1.1kW	DM1037W2, DM1037, DM1055W2, DM1055, DM1075W2, DM1075, DM1110W2, DM1110
CBM3	Fanox single phase Pump Protection Unit	1	2 & 3 Wire	1.5 - 2.2kW	DM1150, DM1220
CBT1	Fanox 3 phase Pump Start/Protection Unit	3	-	0.37-0.75kW	DM3037, DM3055, DM3075
CBT2	Fanox 3 phase Pump Start/Protection Unit	3	-	1.1-1.5kW	DM3110, DM3150
CBT5	Fanox 3 phase Pump Start/Protection Unit	3	-	2.2-4kW	DM3220, DM3300, DM3400

CONTINUED ON FOLLOWING PAGE >

Control Boxes & Panels



PSC starter box

STARTER & CONTROL BOXES

Davey offer DM motors in both 230V – 2 wire, 230V – 3 wire and 415V to give the customers the widest range of options to suit their specific installation.

Most small domestic appliances in Australia and New Zealand use single phase AC power supply making the 230V-2 or 3 wire models for many the obvious choice. However, it is important to keep in mind that the three phase motor has several inherent advantages including a lower current draw per phase, an ability to create more torque, and smoother running than single phase motors.

Single phase motors are simple in construction, durable and generally maintenance free in operation but single phase motors are not self-starting so require either an in-built or external starter. The Davey DM single phase 2 wire motors have in-built starters while the 3 wire models require an external starter box.

The recommended starting method for the DM models the starter box is the Permanent Split Capacitor design (PSC).

The Permanent Split Capacitor design (PSC) Control box is used for all three wire motor. In this control box the capacitor is set in series during starting and running much lower starting currents. Combining these features make the starter box and the DM motors the recommended choice in demanding installations where there is risk of voltage drops or potential overloading.

MANUAL-OFF-AUTO CONTROL BOX

- Providing Manual-off-Auto control in an IP56 enclosure.
- Three phase boxes include adjustable thermal overloads
- Run light, surge arrestors and a 230 volt control circuit for pressure, float or similar switch
- Overloads must be set to suit motor (check amp rating for each motor as amp rating changes depending on type and brand of motor)

Model	Amps	Phase	To suit Davey 4" Motor
FSB221		Single	Up to 2.2kW
CB3075	1.6 – 2.4	Three	0.55 & 0.75kW
CB3150	2.4 – 4.0	Three	1.1 & 1.5kW
CB3220	4.0 – 6.0	Three	1.5 & 2.2kW
CB3750	10.0 – 16.0	Three	4.0 & 5.5kW

DAVEY FANOX MOTOR PROTECTION CONTROL PANEL

- Suitable for single phase up to 2.2kW and three phase up to 4kW
- Plastic case with transparent lid
- Dimensions: 230mm x 250mm x 150mm

Model	Phase	Approx. Motor Current (A)	Adj. Well Filling Time (min)	Protection
CBM2	1	3.0 - 11.0	2 - 70	- Dry running protection - Thermal memory that memorises motor cycles - Automatic Reset for well filling - Indicates cause of tripping - Short Circuit protection
CBM3	1	3.0 - 16.0	2 - 240	
CBT1	3	1.1 - 2.0	2 - 75	
CBT2	3	2.8 - 3.8	2 - 75	
CBT3	3	5.5 - 9.5	2 - 75	

DM – REWINDABLE MOTOR			
MOTOR FEATURES	230V - 2 Wire	230V - 3 Wire	3 Phase
Quick maintenance and easy to rewind	✓		
Lubrication of rotor and bearings	FDA Approved Food Grade with high termal capacity		
Mechanical Seal	Hard face - Silicon Carbide / Ceramic		
Sand slinger protection	✓	✓	✓
Nema Motor to Pump Coupling	✓	✓	✓
Replacable Motor leads	✓	✓	✓
Motor casing	304 stainless steel		
Upper bracket	Cast iron/ nickel plated		
In-built thermal overload protection	✓		

ELECTRICAL DATA – DROP CABLE						
Single Phase: 230V 50Hz 2 Wire and 3 Wire Motors						
Motor kW	Cable size in mm² (3 core plus earth)					
	1.5	2.5	4	6	10	16
0.37	75	125				
0.55	57	95	152			
0.75	45	75	120	174		
1.1	33	53	85	127	210	
1.5	23	38	63	92	154	246
2.2		28	45	67	112	180
Three Phase: 415V 50Hz Motors						
Motor kW	Cable size in mm² (3 core plus earth)					
	1.5	2.5	4	6	10	16
0.37						
0.55	246					
0.75	200	333				
1.1	146	244	390			
1.5	109	180	290	435		
2.2	78	130	207	310	516	
3.0	62	104	167	250	416	
4	46	77	124	186	310	496
5.5	33	56	90	135	225	360
7.5			66	100	165	270

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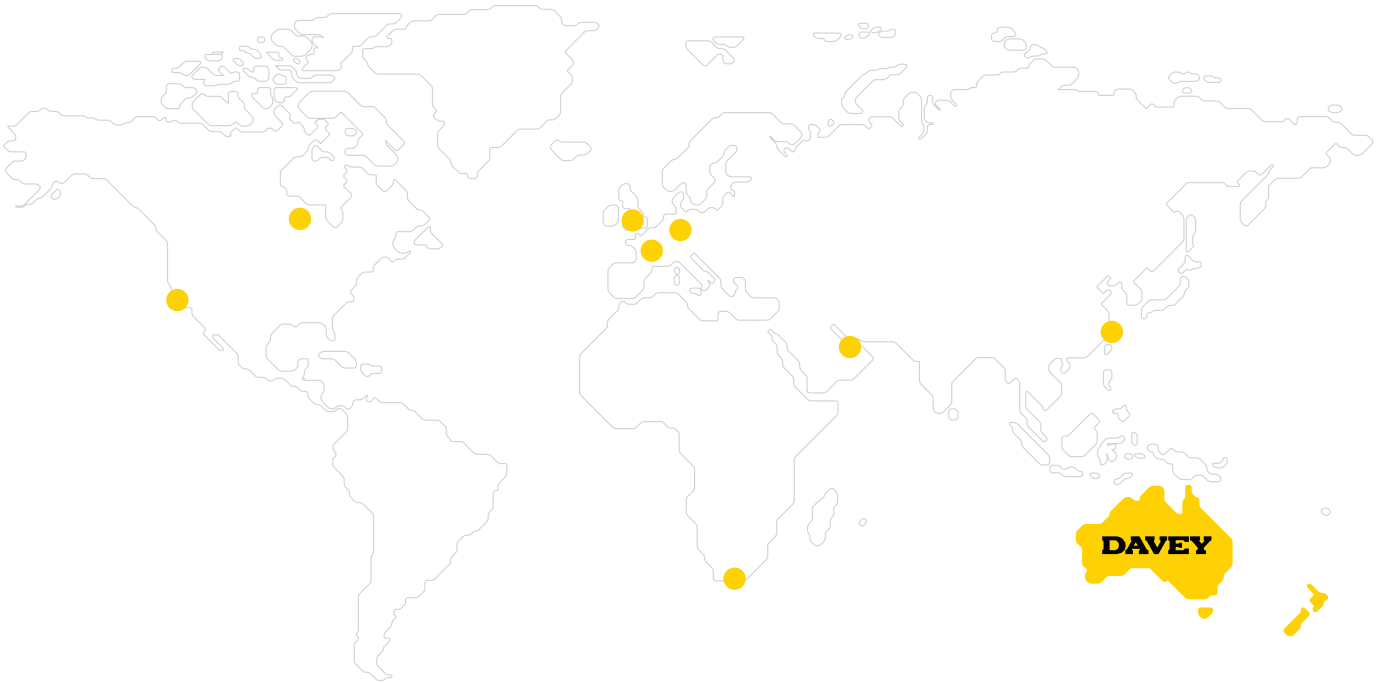

DAVEY

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daveywater.com

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