

Multi VS-ESD Surface vertical variable speed



Pump with integrated inverter

LENNTECH
WATER TREATMENT SOLUTIONS



WATER SUPPLY SURFACE
HORIZONTAL & VERTICAL

The ESPA Speedrive (ESD) variable-frequency controller can be integrated with the following **ESPA** pumps: **MULTI-ESD**, **PRISMA-ESD** and **Multi VS-ESD**. Combining the pump with the ESD extends the hydraulic range for each model. This guarantees the most efficient operation at various duty points by working beyond the restrictions of a fixed speed pump curve. The **ESD module can be adapted to the three-phase** motors of both new ESPA pumps and units **in existing installations**. Using ESPA ESD improves the service quality of the system and extends the unit's life span. A further advantage of ESD is that the large accumulation vessel used in fixed speed systems can be replaced by a far smaller unit. The variable-speed system **delivers constant pressure in varying demand systems**.

Materials

Hydraulic completely in stainless steel AISI 304 or AISI 316 (version N). Mechanical seal in silicon/carbon/EPDM.

Motor

Voltage range for the ESPA inverter Speedrive
M2-M3:
Low voltage disconnect at 180 V, automatic reset at 195V
High voltage disconnect at 270V, automatic reset at 250V
T2-T3 T4:
Low voltage disconnect at 310 V, automatic reset at 335V
High voltage disconnect at 485V, automatic reset at 475V

Equipment

Supplied with a standard pressure transducer 10, 16 or 25 bar.
Counter flanges (optional extra)



Applications

Water supply and pressure boosting for residential, commercial or services buildings.
Clean water transfer, water treatment, irrigation, etc.

Hydraulic performance table

Model	I [A]		P1 [kW]	P2		ESD	1~230 V (model M)	3~400 V (model T)
	3~230 V	3~400 V	3~400 V	[kW]	[HP]		Code	Code
MULTI VS-ESD 4 05F	3.1	1.8	1	0.75	1	M2/T2	206803	206732
MULTI VS-ESD 4 07F	4.2	2.4	1.3	1.1	1.5	M2/T2	202181	202182
MULTI VS-ESD 4 10F	5.7	3.3	1.8	1.5	2	M2/T2	205502	205111
MULTI VS-ESD 4 14F	8.2	4.7	2.6	2.2	3	M3/T3	205259	205099
MULTI VS-ESD 4 20F	10.2	6.2	3.6	3	4	T3		205667

Model	I [A]		P1 [kW]	P2		ESD	1~230 V (model M)	3~400 V (model T)
	3~230 V	3~400 V	3~400 V	[kW]	[HP]		Code	Code
MULTI VS-ESD 6 03F	3.1	1.8	1	0.75	1	M2/T2	203112	203113
MULTI VS-ESD 6 05F	4.2	2.4	1.3	1.1	1.5	M2/T2	203480	203481
MULTI VS-ESD 6 07F	5.7	3.3	1.8	1.5	2	M2/T2	203999	203998
MULTI VS-ESD 6 10F	8.2	4.7	2.6	2.2	3	M3/T3	205260	203876
MULTI VS-ESD 6 14F	10.2	6.2	3.6	3	4	T3		203783
MULTI VS-ESD 6 18F	13.4	7.7	4.6	4	5.5	T4		203779
MULTI VS-ESD 6 22F	17.5	10.1	6.3	5.5	1.8	T4		203781

Hydraulic performance table

Model	I [A]		P1 [kW]	P2		ESD	1~230 V (model M)	3~400 V (model T)
	3~230 V	3~400 V	3~400 V	[kW]	[HP]		Code	Code
MULTI VS-ESD 10 03F	3.1	1.8	1	1.1	1.5	M2/T2	203196	203055
MULTI VS-ESD 10 04F	4.2	2.4	1.3	1.5	2	M2/T2	203198	203129
MULTI VS-ESD 10 06F	5.7	3.3	1.8	2.2	3	M3/T3	205261	205269
MULTI VS-ESD 10 08F	8.2	4.7	2.6	3	4	T3		203000
MULTI VS-ESD 10 09F	10.2	6.2	3.6	4	5.5	T4		203009
MULTI VS-ESD 10 11F	13.4	7.7	4.6	4	5.5	T4		202231
MULTI VS-ESD 10 15F	17.5	10.1	6.3	5.5	7.5	T4		202201

Model	I [A]		P1 [kW]	P2		ESD	1~230 V (model M)	3~400 V (model T)
	3~230 V	3~400 V	3~400 V	[kW]	[HP]		Code	Code
MULTI VS-ESD 15 02F	5.7	3.3	1.8	2.2	3	M3/T3	205262	202321
MULTI VS-ESD 15 03F	8.2	4.7	2.6	3	4	T3		202189
MULTI VS-ESD 15 04F	10.2	6.2	3.6	4	5.5	T4		204731
MULTI VS-ESD 15 06F	17.5	10.1	6.3	5.5	7.5	T4		205421

Model	I [A]		P1 [kW]	P2		ESD	1~230 V (model M)	3~400 V (model T)
	3~230 V	3~400 V	3~400 V	[kW]	[HP]		Code	Code
MULTI VS-ESD 25 01F	5.7	3.3	1.8	2.2	3	M3/T3	205263	213456
MULTI VS-ESD 25 02F	10.2	6.2	3.6	4	5.5	T4		205385
MULTI VS-ESD 25 03F	17.5	10.1	6.3	5.5	7.5	T4		202191