PRODUCT CATALOG

Franklin Electric

BOOSTER SETS

GL SERIES (WITH MANIFOLDS IN AISI 304 SS)



franklinwater.eu

E-Tech®

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E-Tech®

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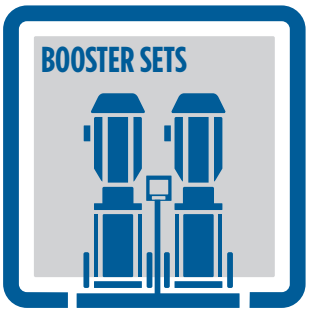
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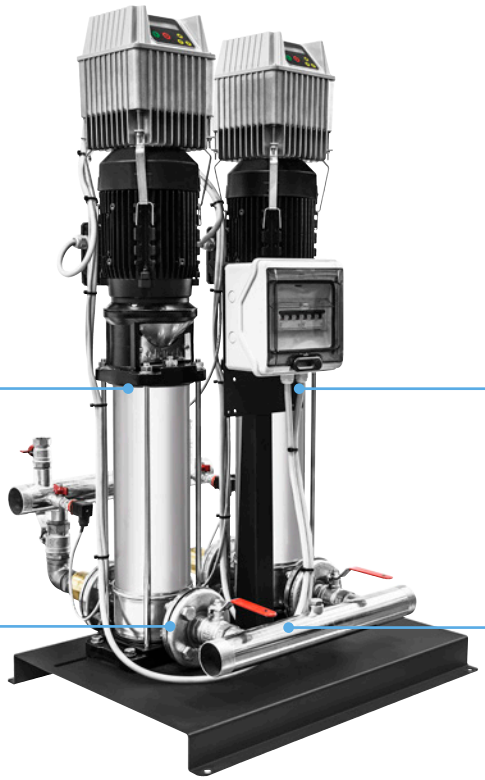
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For more information please consult our website **franklinwater.eu**.



PRODUCT OVERVIEW

High performance boosting systems, composed of multiple electric pumps



Compact design

Ease of handling

All assemblies are hydraulically and electrically tested and factory assembled

Series of pumps connected in parallel

via manifolds fixed on a base, with check valves and shut-off valves

Manifolds in AISI 304

Available in 2 or 3 pump versions of the EV, EM, EH series

Selection software



EV



EM



EH

APPLICATIONS

Small domestic and industrial plants

Water Distribution
Pressure Boosting

Irrigation
Gardening
Sprinklers

Rainwater Recovery

Industrial plants
Wash down unit

Cooling and refrigeration
HVAC systems

GENERAL FEATURES

GENERAL FEATURES

Basement		≤ 200 kg	Folded sheet (3mm) with anticorrosion black painting
		> 200 kg	Reinforced base with UPN metal profiles
Manifolds		≤ 3"	AISI 304 manifolds with threaded ends (AISI 316 or flanged ends on request)
		> 3"	AISI 304 manifolds with flanged ends (AISI 316 or threaded ends on request)
Valves	**Suction**	≤ 3"	Brass ball valve with threaded connections
		> 3"	Wafer valve with EPDM gaskets and AISI 316 closing disc AISI 304 flanged spool (AISI 316 on request)
	Discharge	≤ 3"	Brass ball valve with threaded connections Brass check valve with threaded connections, AISI 304 spring and NBR gaskets
		> 3"	Wafer valve with EPDM gaskets and AISI 316 closing disc AISI 316 disc check valve AISI 304 flanged spool (AISI 316 on request)
Control		Integrated inverters	DRIVE-TECH / DRIVE-TECH MINI / DRIVE-TECH COMPACT
		Control box	IP65 control box with magnetothermal protection
Accessories included			0-16 pressure gauge with brass connection (AISI 316 on request) Danfoss MBS 3000 pressure transducers

GLM02-EH DTm

PRODUCT DESCRIPTION

Single-phase constant pressure booster set equipped with DrivE-Tech MINI (DTm) series inverter and 2 EM pumps.
The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	1 x 230 V 50 Hz
Head:	up to 100 m
Flow:	up to 30 m^3/h
Power:	up to 2 x 1,5 kW
Maximum operating pressure:	10 bar
Control panel protection degree:	IP55



DESIGN FEATURES
The product includes: three-phase pumps, DrivE-Tech MINI series inverter with single phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

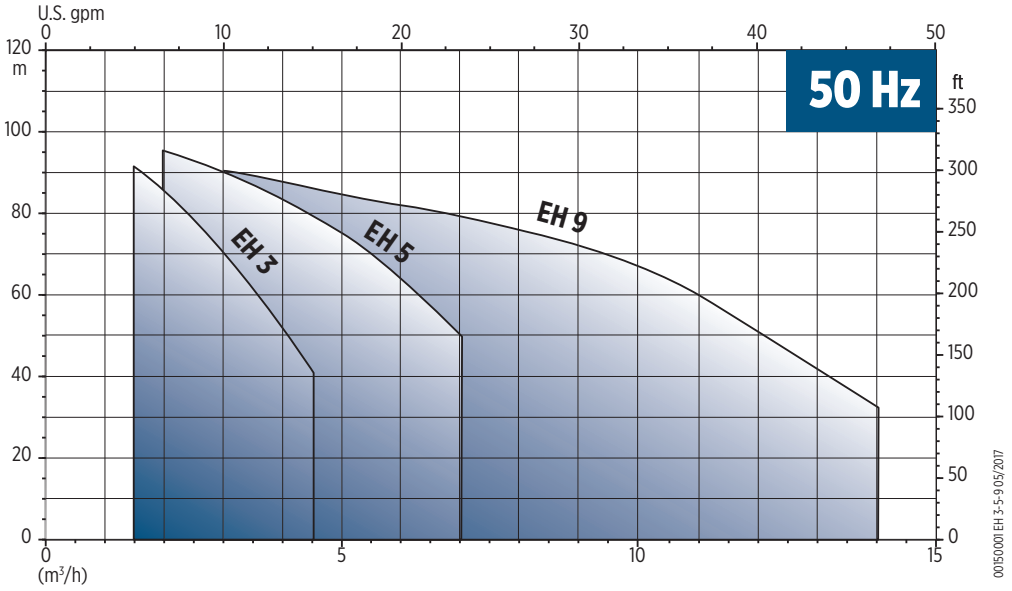
PUMP IDENTIFICATION CODE

GLM | 02 | EH03/07I011T5 | DTM

- **DTm** DrivE-Tech MINI
- **EH** Horizontal Multistage Pumps
- **02** Set with 2 parallel pumps
- **03** Set with 3 parallel pumps
- **GLM** Set with inverter, single-phase power supply and three-phase output

00140096 01/2024

FAMILY CURVES



00150001 EH 3-5-9 05/2017

* Hydraulic performance figures refer to individual pumps

GLM02-EH DTm

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLM02-EH3/03I007T5/DTM	7L210103AALDTM	2 x 0.75	G 2"	G 1" ½	1,5 - 4,5	29,3 - 13,8	54
GLM02-EH3/04I007T5/DTM	7L210203AALDTM	2 x 0.75	G 2"	G 1" ½		38,3 - 17,5	54
GLM02-EH3/05I007T5/DTM	7L210303AALDTM	2 x 0.75	G 2"	G 1" ½		46,8 - 20,7	58
GLM02-EH3/06I011T5/DTM	7L210403AALDTM	2 x 1.1	G 2"	G 1" ½		56,7 - 25,4	61
GLM02-EH3/07I011T5/DTM	7L210503AALDTM	2 x 1.1	G 2"	G 1" ½		65,1 - 28,4	68
GLM02-EH3/08I015T5/DTM	7L210603AALDTM	2 x 1.5	G 2"	G 1" ½		77 - 35,6	68
GLM02-EH3/09I015T5/DTM	7L210703AALDTM	2 x 1.5	G 2"	G 1" ½		85,8 - 39,1	72
GLM02-EH5/03I011T5/DTM	7L211103AALDTM	2 x 1,1	G 2"	G 1" ½	2,0 - 7,0	31,9 - 16,5	62
GLM02-EH5/04I011T5/DTM	7L211203AALDTM	2 x 1,1	G 2"	G 1" ½		42,4 - 21,9	62
GLM02-EH5/05I011T5/DTM	7L211303AALDTM	2 x 1,1	G 2"	G 1" ½		52,1 - 25,8	67
GLM02-EH5/06I015T5/DTM	7L211403AALDTM	2 x 1,5	G 2"	G 1" ½		64 - 33,6	70
GLM02-EH5/07I015T5/DTM	7L211503AALDTM	2 x 1,5	G 2"	G 1" ½		73,9 - 37,9	75
GLM02-EH5/08I022T5/DTM	7L211603AALDTM	2 x 1,5	G 2"	G 1" ½		87,1 - 47,9	86
GLM02-EH9/03I011T5/DTM	7L212103AALDTM	2 x 1,1	G 2" ½	G 2"	3,0 - 14	32,7 - 9,7	72
GLM02-EH9/04I015T5/DTM	7L212203AALDTM	2 x 1,5	G 2" ½	G 2"		44,2 - 14,4	73

* The Hydraulic performances refer to the single electric pump

GLM02-EM DTm

PRODUCT DESCRIPTION

Single-phase power unit with DrivE-Tech MINI (DTm) inverter and 2 EM series electric pumps.
The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	1 x 230 V 50 Hz
Head:	up to 100 m
Flow:	up to 30 m³/h
Power:	up to 2 x 1,5 kW
Maximum operating pressure:	10 bar
Control panel protection degree:	IP55



DESIGN FEATURES
The product includes: three-phase pumps, DrivE-Tech MINI series inverter with single phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

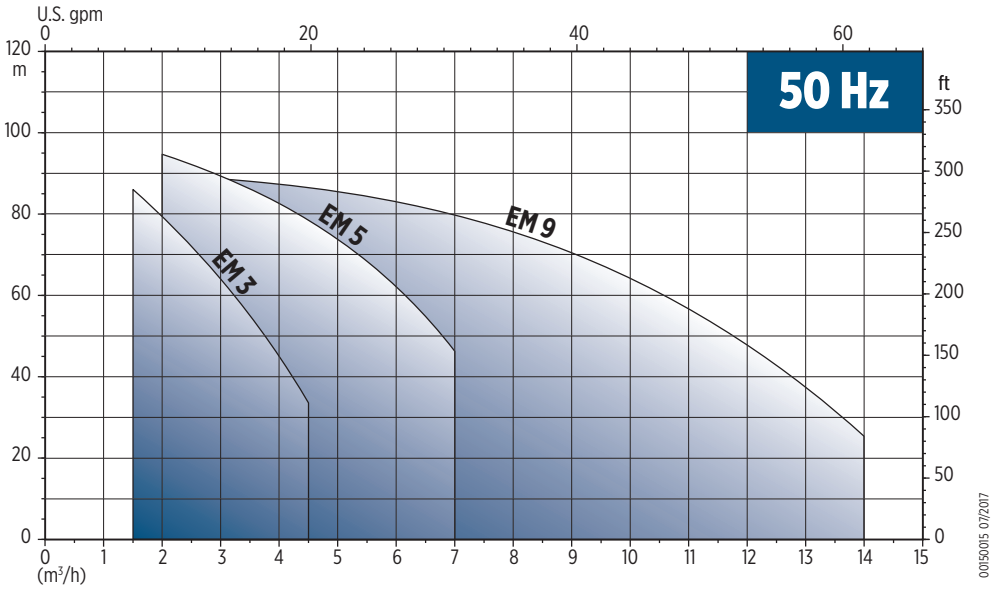
PUMP IDENTIFICATION CODE

GLM | **02** | **EM5/07RG015T5** | **DTM**

- **DTm** DrivE-Tech MINI
- **EM** Vertical Close-Coupled Multistage Pumps
- **02** Set with 2 parallel pumps
- **03** Set with 3 parallel pumps
- **GLM** Set with inverter, single-phase power supply and three-phase output

00140095 01/2024

FAMILY CURVES



00150015 07/2017

* Hydraulic performance figures refer to individual pumps

GLM02-EM DTM

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLM02-EM3/03RG007T5/DTM	7L2N0103AALDTM	2 x 0,75	G 2"	G 2"	2,0 - 4,5	28,1 - 14,2	69
GLM02-EM3/04RG007T5/DTM	7L2N0203AALDTM	2 x 0,75	G 2"	G 2"		36,6 - 18	73
GLM02-EM3/05RG007T5/DTM	7L2N0303AALDTM	2 x 0,75	G 2"	G 2"		44,7 - 21,3	76
GLM02-EM3/06RG011T5/DTM	7L2N0403AALDTM	2 x 1,1	G 2"	G 2"		54,2 - 26,2	83
GLM02-EM3/07RG011T5/DTM	7L2N0503AALDTM	2 x 1,1	G 2"	G 2"		62,1 - 29,3	83
GLM02-EM3/08RG015T5/DTM	7L2N0603AALDTM	2 x 1,5	G 2"	G 2"		73,7 - 36,7	87
GLM02-EM3/09RG015T5/DTM	7L2N0703AALDTM	2 x 1,5	G 2"	G 2"		82,1 - 40,3	77
GLM02-EM5/03RG007T5/DTM	7L2P0103AALDTM	2 x 0,75	G 2"	G 2"	2,5 - 7,0	30,7 - 16,4	77
GLM02-EM5/04RG011T5/DTM	7L2P0203AALDTM	2 x 1,1	G 2"	G 2"		40,8 - 21,8	82
GLM02-EM5/05RG011T5/DTM	7L2P0303AALDTM	2 x 1,1	G 2"	G 2"		50,1 - 25,7	85
GLM02-EM5/06RG015T5/DTM	7L2P0403AALDTM	2 x 1,5	G 2"	G 2"		61,6 - 33,4	90
GLM02-EM5/07RG015T5/DTM	7L2P0503AALDTM	2 x 1,5	G 2"	G 2"		71,1 - 37,7	101
GLM02-EM9/03RG011T5/DTM	7L2Q0103AALDTM	2 x 1,1	G 2" ½	G 2" ½	3,0 - 14	32,7 - 9,7	87
GLM02-EM9/04RG015T5/DTM	7L2Q0203AALDTM	2 x 1,5	G 2" ½	G 2" ½		44,2 - 14,4	88

* The Hydraulic performances refer to the single electric pump

GLT EH DTm

PRODUCT DESCRIPTION

Three-phase constant pressure booster set equipped with DrivE-Tech MINI (DTm) and Compact (DTC) series inverter and 2 EH pumps. The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	3 x 400 V 50 Hz
Head:	up to 105 m
Flow:	up to 60 m³/h
Power:	up to 2 x 5,5 kW
Maximum operating pressure:	PN10
Control panel protection degree:	IP55



DESIGN FEATURES

The product includes: three-phase pumps, DrivE-Tech MINI series inverter with three phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

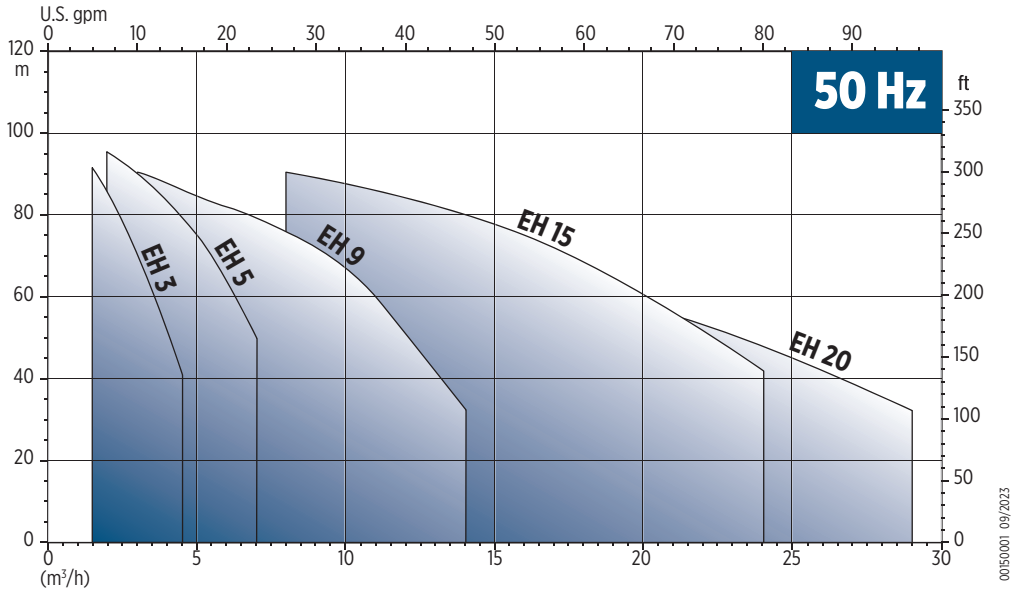
PUMP IDENTIFICATION CODE

GLT | 02 | EH03/07I011T5 | DTM

DTm	DrivE-Tech MINI
DTC	DrivE-Tech Compact
EH	Horizontal Multistage Pumps
02	Set with 2 parallel pumps
03	Set with 3 parallel pumps
GLT	Set with inverter, three-phase power supply and three-phase output

00140093 01/2024

FAMILY CURVES



00150001 09/2023

* Hydraulic performance figures refer to individual pumps

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GLT EH DTm

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLT02-EH3/03I007T5/DTM	7L210104AALDTM	2 x 0,75	G 2"	G 1" ½	1,5 - 4,5	29,3 - 13,8	54
GLT02-EH3/04I007T5/DTM	7L210204AALDTM	2 x 0,75	G 2"	G 1" ½		38,3 - 17,5	54
GLT02-EH3/05I007T5/DTM	7L210304AALDTM	2 x 0,75	G 2"	G 1" ½		46,8 - 20,7	58
GLT02-EH3/06I011T5/DTM	7L210404AALDTM	2 x 1,1	G 2"	G 1" ½		56,7 - 25,4	61
GLT02-EH3/07I011T5/DTM	7L210504AALDTM	2 x 1,1	G 2"	G 1" ½		65,1 - 28,4	68
GLT02-EH3/08I015T5/DTM	7L210604AALDTM	2 x 1,5	G 2"	G 1" ½		77 - 35,6	69
GLT02-EH3/09I015T5/DTM	7L210704AALDTM	2 x 1,5	G 2"	G 1" ½		85,8 - 39,1	71
GLT02-EH5/03I007T5/DTM	7L211104AALDTM	2 x 0,75	G 2"	G 1" ½	2,0 - 7,0	31,9 - 16,5	62
GLT02-EH5/04I011T5/DTM	7L211204AALDTM	2 x 1,1	G 2"	G 1" ½		42,4 - 21,9	62
GLT02-EH5/05I011T5/DTM	7L211304AALDTM	2 x 1,1	G 2"	G 1" ½		52,1 - 25,8	66
GLT02-EH5/06I015T5/DTM	7L211404AALDTM	2 x 1,5	G 2"	G 1" ½		64 - 33,6	69
GLT02-EH5/07I015T5/DTM	7L211504AALDTM	2 x 1,5	G 2"	G 1" ½		73,9 - 37,9	74
GLT02-EH5/08I022T5/DTM	7L211604AALDTM	2 x 2,2	G 2"	G 1" ½		87,1 - 47,9	78
GLT02-EH5/09I022T5/DTM	7L211704AALDTM	2 x 2,2	G 2"	G 1" ½		97,5 - 53	78
GLT02-EH9/03I011T5/DTM	7L212104AALDTM	2 x 1,1	G 2" ½	G 2"	3,0 - 14	32,7 - 9,7	70
GLT02-EH9/04I015T5/DTM	7L212204AALDTM	2 x 1,5	G 2" ½	G 2"		44,2 - 14,4	73
GLT02-EH9/05I022T5/DTM	7L212304AALDTM	2 x 2,2	G 2" ½	G 2"		56,6 - 20,7	78
GLT02-EH9/06I022T5/DTM	7L212404AALDTM	2 x 2,2	G 2" ½	G 2"		67,4 - 23,7	81
GLT02-EH9/07I030T5/DTM	7L212504AALDTM	2 x 3	G 2" ½	G 2"		79,4 - 29,3	90
GLT02-EH9/08I030T5/DTM	7L212604AALDTM	2 x 3	G 2" ½	G 2"		90,3 - 32,5	95
GLT02-EH15/02I015T5/DTM	7L2T0104AALDTM	2 x1,5	G 3"	G 2" ½	8,0 - 24	25 - 10,3	80
GLT02-EH15/03I022T5/DTM	7L2T0204AALDTM	2 x2,2	G 3"	G 2" ½		38,3 - 16,5	92
GLT02-EH15/04I030T5/DTM	7L2T0304AALDTM	2 x3	G 3"	G 2" ½		51,4 - 22,5	96
GLT02-EH15/05I040T5/DTM	7L2T0404AALDTM	2 x4	G 3"	G 2" ½		64,5 - 28,6	103
GLT02-EH15/06I055T5/DTC	7L2T0504AALDTC	2 x5,5	G 3"	G 2" ½		78,2 - 35,6	120
GLT02-EH15/07I055T5/DTC	7L2T0604AALDTC	2 x5,5	G 3"	G 2" ½		90,8 - 40,7	125
GLT02-EH20/02I022T5/DTM	7L2S0104AALDTM	2 x2,2	G 3"	G 2" ½	10,0 - 28	27,9 - 12,7	80
GLT02-EH20/03I030T5/DTM	7L2S0204AALDTM	2 x3	G 3"	G 2" ½		41,9 - 19	92
GLT02-EH20/04I040T5/DTM	7L2S0304AALDTM	2 x4	G 3"	G 2" ½		56 - 25,6	96
GLT02-EH20/05I055T5/DTC	7L2S0404AALDTC	2 x5,5	G 3"	G 2" ½		70,6 - 33,2	103

* The Hydraulic performances refer to the single electric pump

GLT EM DTm

PRODUCT DESCRIPTION

Three-phase constant pressure booster set equipped with DrivE-Tech MINI (DTm) series inverter and 2 EM pumps.
The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	3 x 400 V 50 Hz
Head:	up to 104 m
Flow:	up to 30 m³/h
Power:	up to 2 x 3 kW
Maximum operating pressure:	PN10
Control panel protection degree:	IP55



DESIGN FEATURES
The product includes: three-phase pumps, DrivE-Tech MINI series inverter with three phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

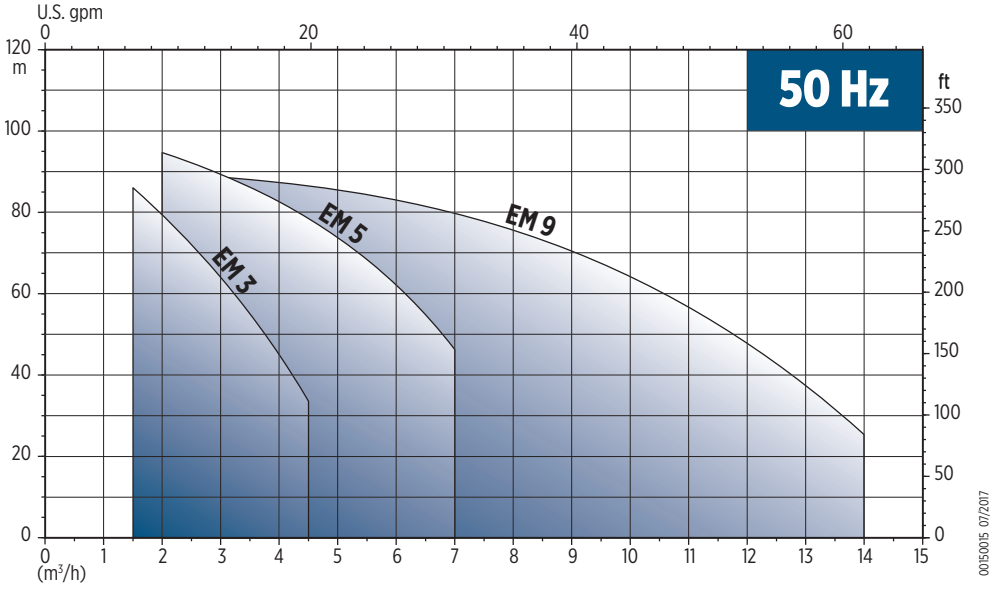
PUMP IDENTIFICATION CODE

GLT | 02 | EM5/07RG015T5 | DTM

DTm	DrivE-Tech MINI
EM	Vertical Close-Coupled Multistage Pumps
02	Set with 2 parallel pumps
03	Set with 3 parallel pumps
GLT	Set with inverter, three-phase power supply and three-phase output

00140094 01/2024

FAMILY CURVES



0015005 07/2017

* Hydraulic performance figures refer to individual pumps

GLT EM DTm

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLT02-EM3/03RG007T5/DTM	7L2N0104AALDTM	2 x 0,75	G 2"	G 2"	2,0 - 4,5	28,1 - 14,2	69
GLT02-EM3/04RG007T5/DTM	7L2N0204AALDTM	2 x 0,75	G 2"	G 2"		36,6 - 18	73
GLT02-EM3/05RG007T5/DTM	7L2N0304AALDTM	2 x 0,75	G 2"	G 2"		44,7 - 21,3	76
GLT02-EM3/06RG011T5/DTM	7L2N0404AALDTM	2 x 1,1	G 2"	G 2"		54,2 - 26,2	83
GLT02-EM3/07RG011T5/DTM	7L2N0504AALDTM	2 x 1,1	G 2"	G 2"		62,1 - 29,3	83
GLT02-EM3/08RG015T5/DTM	7L2N0604AALDTM	2 x 1,5	G 2"	G 2"		73,7 - 36,7	87
GLT02-EM3/09RG015T5/DTM	7L2N0704AALDTM	2 x 1,5	G 2"	G 2"		82,1 - 40,3	77
GLT02-EM5/03RG007T5/DTM	7L2P0104AALDTM	2 x 0,75	G 2"	G 2"	2,5 - 7,0	30,7 - 16,4	77
GLT02-EM5/04RG011T5/DTM	7L2P0204AALDTM	2 x 1,1	G 2"	G 2"		40,8 - 21,8	82
GLT02-EM5/05RG011T5/DTM	7L2P0304AALDTM	2 x 1,1	G 2"	G 2"		50,1 - 25,7	85
GLT02-EM5/06RG015T5/DTM	7L2P0404AALDTM	2 x 1,5	G 2"	G 2"		61,6 - 33,4	90
GLT02-EM5/07RG015T5/DTM	7L2P0504AALDTM	2 x 1,5	G 2"	G 2"		71,1 - 37,7	101
GLT02-EM5/08RG022T5/DTM	7L2P0604AALDTM	2 x 2,2	G 2"	G 2"		84,2 - 47,7	110
GLT02-EM5/09RG022T5/DTM	7L2P0704AALDTM	2 x 2,2	G 2"	G 2"		94,2 - 52,8	115
GLT02-EM9/03RG011T5/DTM	7L2Q0104AALDTM	2 x 1,1	G 2" ½	G 2" ½	3,0 - 14,0	32,7 - 9,7	87
GLT02-EM9/04RG015T5/DTM	7L2Q0204AALDTM	2 x 1,5	G 2" ½	G 2" ½		44,2 - 14,4	88
GLT02-EM9/05RG022T5/DTM	7L2Q0304AALDTM	2 x 2,2	G 2" ½	G 2" ½		56,7 - 21	100
GLT02-EM9/06RG022T5/DTM	7L2Q0404AALDTM	2 x 2,2	G 2" ½	G 2" ½		67,5 - 24	105
GLT02-EM9/07RG030T5/DTM	7L2Q0504AALDTM	2 x 3	G 2" ½	G 2" ½		79,5 - 29,7	110
GLT02-EM9/08RG030T5/DTM	7L2Q0604AALDTM	2 x 3	G 2" ½	G 2" ½		90,4 - 32,9	120

* The Hydraulic performances refer to the single electric pump

GLT02-EV DTm

PRODUCT DESCRIPTION

Three-phase constant pressure booster set equipped with DrivE-Tech MINI (DTm) and Compact (DTC) series inverter and 2 EV pumps. The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	3 x 400 V 50 Hz
Head:	up to 159 m
Flow:	up to 56 m^3/h
Power:	up to 2 x 11 kW
Maximum operating pressure:	PN16
Control panel protection degree:	IP55



DESIGN FEATURES

The product includes: three-phase pumps, DrivE-Tech MINI series inverter with three phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

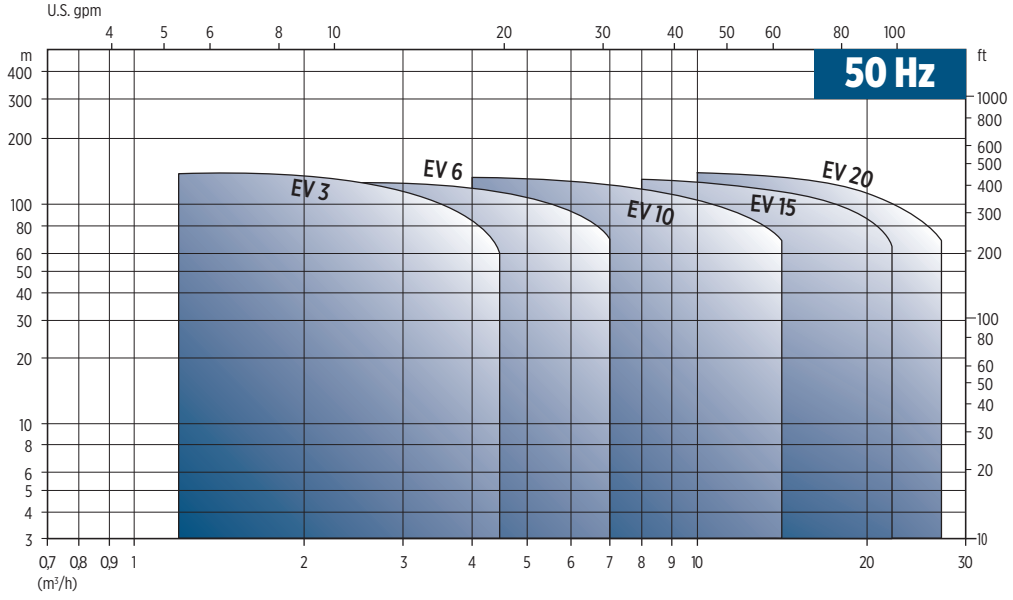
PUMP IDENTIFICATION CODE

GLT | 02 | EV10/12 FI040T | DTM

- **DTm** DrivE-Tech MINI
- **DTC** DrivE-Tech Compact
- **EV** Vertical Multistage Pumps with normalized motor
- **02** Set with 2 parallel pumps
- **03** Set with 3 parallel pumps
- **GLT** Set with inverter, three-phase power supply and three-phase output

00140097 01/2024

FAMILY CURVES



00150024111-20/12/2017

* Hydraulic performance figures refer to individual pumps

E-Tech®

GLT02-EV DTm

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLT02-EV3/07 FI007T/DTM	7L2C0504AALDTM	2 x 0,75	G 1" ½	G 1" ½	1,4 - 4,2	49 - 24	88
GLT02-EV3/08 FI007T/DTM	7L2C0604AALDTM	2 x 0,75	G 1" ½	G 1" ½		56 - 26	90
GLT02-EV3/09 FI007T/DTM	7L2C0704AALDTM	2 x 0,75	G 1" ½	G 1" ½		62 - 29	92
GLT02-EV3/10 FI011T/DTM	7L2C0804AALDTM	2 x 1,1	G 1" ½	G 1" ½		70 - 34	95
GLT02-EV3/11 FI011T/DTM	7L2C0904AALDTM	2 x 1,1	G 1" ½	G 1" ½		77 - 37	98
GLT02-EV3/12 FI011T/DTM	7L2C1004AALDTM	2 x 1,1	G 1" ½	G 1" ½		84 - 40	100
GLT02-EV3/13 FI011T/DTM	7L2C1104AALDTM	2 x 1,1	G 1" ½	G 1" ½		90 - 42	103
GLT02-EV3/14 FI015T/DTM	7L2C1204AALDTM	2 x 1,5	G 1" ½	G 1" ½		99 - 49	106
GLT02-EV3/15 FI015T/DTM	7L2C1304AALDTM	2 x 1,5	G 1" ½	G 1" ½		106 - 52	107
GLT02-EV3/16 FI015T/DTM	7L2C1404AALDTM	2 x 1,5	G 1" ½	G 1" ½		112 - 54	109
GLT02-EV3/17 FI015T/DTM	7L2C1504AALDTM	2 x 1,5	G 1" ½	G 1" ½		119 - 57	110
GLT02-EV3/18 FI022T/DTM	7L2C1604AALDTM	2 x 2,2	G 1" ½	G 1" ½		129 - 65	115
GLT02-EV3/19 FI022T/DTM	7L2C1704AALDTM	2 x 2,2	G 1" ½	G 1" ½		136 - 68	116
GLT02-EV3/21 FI022T/DTM	7L2C1804AALDTM	2 x 2,2	G 1" ½	G 1" ½		149 - 74	117
GLT02-EV6/05 FI007T/DTM	7L2D0304AALDTM	2 x 0,75	G 2"	G 2"	2,8 - 7,2	34 - 18	88
GLT02-EV6/06 FI007T/DTM	7L2D0404AALDTM	2 x 0,75	G 2"	G 2"		40 - 21	90
GLT02-EV6/07 FI011T/DTM	7L2D0504AALDTM	2 x 1,1	G 2"	G 2"		48 - 26	93
GLT02-EV6/08 FI011T/DTM	7L2D0604AALDTM	2 x 1,1	G 2"	G 2"		54 - 28	96
GLT02-EV6/09 FI011T/DTM	7L2D0704AALDTM	2 x 1,1	G 2"	G 2"		60 - 21	98
GLT02-EV6/10 FI015T/DTM	7L2D0804AALDTM	2 x 1,5	G 2"	G 2"		69 - 37	100
GLT02-EV6/11 FI015T/DTM	7L2D0904AALDTM	2 x 1,5	G 2"	G 2"		75 - 40	102
GLT02-EV6/12 FI015T/DTM	7L2D1004AALDTM	2 x 1,5	G 2"	G 2"		81 - 43	105
GLT02-EV6/13 FI015T/DTM	7L2D1104AALDTM	2 x 1,5	G 2"	G 2"		87 - 45	106
GLT02-EV6/14 FI022T/DTM	7L2D1204AALDTM	2 x 2,2	G 2"	G 2"		97 - 53	110
GLT02-EV6/15 FI022T/DTM	7L2D1304AALDTM	2 x 2,2	G 2"	G 2"		103 - 56	111
GLT02-EV6/16 FI022T/DTM	7L2D1404AALDTM	2 x 2,2	G 2"	G 2"		110 - 59	112
GLT02-EV6/17 FI022T/DTM	7L2D1504AALDTM	2 x 2,2	G 2"	G 2"		116 - 62	115
GLT02-EV6/18 FI022T/DTM	7L2D1604AALDTM	2 x 2,2	G 2"	G 2"		122 - 65	118
GLT02-EV6/19 FI030T/DTM	7L2D1704AALDTM	2 x 2,2	G 2"	G 2"		128 - 68	120
GLT02-EV6/20 FI030T/DTM	7L2D1804AALDTM	2 x 3	G 2"	G 2"		140 - 77	121
GLT02-EV6/21 FI030T/DTM	7L2D1904AALDTM	2 x 3	G 2"	G 2"		146 - 80	125
GLT02-EV10/03 FI011T/DTM	7L2E0104AALDTM	2 x 1,1	G 2" ½	G 2" ½	6,0 - 14	28 - 13	97
GLT02-EV10/04 FI015T/DTM	7L2E0204AALDTM	2 x 1,5	G 2" ½	G 2" ½		37 - 18	104
GLT02-EV10/05 FI015T/DTM	7L2E0304AALDTM	2 x 1,5	G 2" ½	G 2" ½		45 - 22	110
GLT02-EV10/06 FI022T/DTM	7L2E0404AALDTM	2 x 2,2	G 2" ½	G 2" ½		56 - 27	112
GLT02-EV10/07 FI022T/DTM	7L2E0504AALDTM	2 x 2,2	G 2" ½	G 2" ½		64 - 31	114
GLT02-EV10/08 FI030T/DTM	7L2E0604AALDTM	2 x 3	G 2" ½	G 2" ½		76 - 38	120
GLT02-EV10/09 FI030T/DTM	7L2E0704AALDTM	2 x 3	G 2" ½	G 2" ½		85 - 42	122
GLT02-EV10/10 FI040T/DTM	7L2E0804AALDTM	2 x 4	G 2" ½	G 2" ½		96 - 49	150
GLT02-EV10/11 FI040T/DTM	7L2E0904AALDTM	2 x 4	G 2" ½	G 2" ½		105 - 53	152
GLT02-EV10/12 FI040T/DTM	7L2E1004AALDTM	2 x 4	G 2" ½	G 2" ½		114 - 57	153
GLT02-EV10/13 FI040T/DTC	7L2E1104AALDTC	2 x 4	G 2" ½	G 2" ½		123 - 62	155
GLT02-EV10/15 FI055T/DTC	7L2E1204AALDTC	2 x 5,5	G 2" ½	G 2" ½		143 - 72	212
GLT02-EV15/03 FI022T/DTM	7L250204AALDTM	2 x 3	G 3"	G 3"	8,0 - 24	37 - 13	135
GLT02-EV15/04 FI030T/DTM	7L250304AALDTM	2 x 4	G 3"	G 3"		50 - 18	150
GLT02-EV15/05 FI040T/DTM	7L250404AALDTM	2 x 4	G 3"	G 3"		65 - 28	185
GLT02-EV15/06 FI055T/DTC	7L250504AALDTC	2 x 5,5	G 3"	G 3"		80 - 37	195
GLT02-EV15/07 FI055T/DTC	7L250604AALDTC	2 x 5,5	G 3"	G 3"		93 - 43	211
GLT02-EV15/08 FI075T/DTC	7L250704AALDTC	2 x 7,5	G 3"	G 3"		106 - 48	225
GLT02-EV15/09 FI075T/DTC	7L250804AALDTC	2 x 7,5	G 3"	G 3"		118 - 54	225
GLT02-EV15/10 FI110T/DTC	7L250904AALDTC	2 x 11	G 3"	G 3"		134 - 63	260
GLT02-EV20/03 FI030T/DTM	7L260204AALDTM	2 x 3	G 3"	G 3"	10 - 28	41 - 17	135
GLT02-EV20/04 FI040T/DTM	7L260304AALDTM	2 x 4	G 3"	G 3"		56 - 25	150
GLT02-EV20/05 FI055T/DTC	7L260404AALDTC	2 x 5,5	G 3"	G 3"		71 - 33	185
GLT02-EV20/06 FI075T/DTC	7L260504AALDTC	2 x 7,5	G 3"	G 3"		86 - 42	205
GLT02-EV20/07 FI075T/DTC	7L260604AALDTC	2 x 7,5	G 3"	G 3"		100 - 48	225
GLT02-EV20/08 FI110T/DTC	7L260704AALDTC	2 x 11	G 3"	G 3"		116 - 58	250
GLT02-EV20/09 FI110T/DTC	7L260804AALDTC	2 x 11	G 3"	G 3"		130 - 65	260
GLT02-EV20/10 FI110T/DTC	7L260904AALDTC	2 x 11	G 3"	G 3"		144 - 71	270

* The Hydraulic performances refer to the single electric pump

GLT02-EV DT

PRODUCT DESCRIPTION

Three-phase constant pressure booster set equipped with DrivE-Tech series (DT) inverter and 2 EV pumps.
The check valves are installed on the delivery side. (3-pump sets on request)

TECHNICAL DATA	
Supply voltage:	3 x 400 V 50 Hz
Head:	up to 159 m
Flow:	up to 56 m^3/h
Power:	up to 2 x 11 kW
Maximum operating pressure:	PN16
Control panel protection degree:	IP55



DESIGN FEATURES
The product includes: three-phase pumps, DrivE-Tech MINI series inverter with three phase input and three phase output, base plate, electrical power supply panel, suction and delivery manifolds in AISI 304, shut-off valves and check valves.

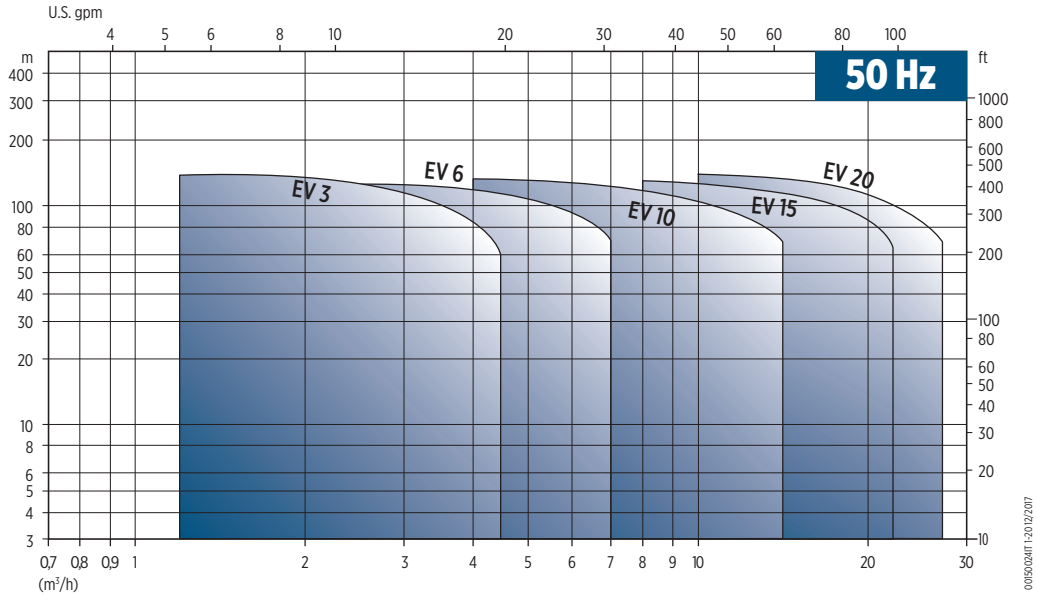
PUMP IDENTIFICATION CODE

GLT | 02 | EV10/12 FI040T | DTM

- **DT** DrivE-Tech
- **EM** Horizontal Multistage Pumps
- **02** Set with 2 parallel pumps
- **03** Set with 3 parallel pumps
- **GLT** Set with inverter, three-phase power supply and three-phase output

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FAMILY CURVES



* Hydraulic performance figures refer to individual pumps

E-Tech®

GLT02-EV DT

MODELS

Model	Code	Power [kW]	DN ASP	DN MAN	Performance *		Weight [kg]
					Q [m³/h]	H [m]	
GLT02-EV3/07FI007T/DT	7L2C0504AALDT	2 x 0,75	G 1" ½	G 1" ½	1,4 - 4,2	49 - 24	88
GLT02-EV3/08FI007T/DT	7L2C0604AALDT	2 x 0,75	G 1" ½	G 1" ½		56 - 26	90
GLT02-EV3/09FI007T/DT	7L2C0704AALDT	2 x 0,75	G 1" ½	G 1" ½		62 - 29	92
GLT02-EV3/10FI011T/DT	7L2C0804AALDT	2 x 1,1	G 1" ½	G 1" ½		70 - 34	95
GLT02-EV3/11FI011T/DT	7L2C0904AALDT	2 x 1,1	G 1" ½	G 1" ½		77 - 37	98
GLT02-EV3/12FI011T/DT	7L2C1004AALDT	2 x 1,1	G 1" ½	G 1" ½		84 - 40	100
GLT02-EV3/13FI011T/DT	7L2C1104AALDT	2 x 1,1	G 1" ½	G 1" ½		90 - 42	103
GLT02-EV3/14FI015T/DT	7L2C1204AALDT	2 x 1,5	G 1" ½	G 1" ½		99 - 49	106
GLT02-EV3/15FI015T/DT	7L2C1304AALDT	2 x 1,5	G 1" ½	G 1" ½		106 - 52	107
GLT02-EV3/16FI015T/DT	7L2C1404AALDT	2 x 1,5	G 1" ½	G 1" ½		112 - 54	109
GLT02-EV3/17FI015T/DT	7L2C1504AALDT	2 x 1,5	G 1" ½	G 1" ½		119 - 57	110
GLT02-EV3/18FI022T/DT	7L2C1604AALDT	2 x 2,2	G 1" ½	G 1" ½		129 - 65	115
GLT02-EV3/19FI022T/DT	7L2C1704AALDT	2 x 2,2	G 1" ½	G 1" ½		136 - 68	116
GLT02-EV3/21FI022T/DT	7L2C1804AALDT	2 x 2,2	G 1" ½	G 1" ½		149 - 74	117
GLT02-EV6/05FI007T/DT	7L2D0304AALDT	2 x 0,75	G 2"	G 2"	2,8 - 7,2	34 - 18	88
GLT02-EV6/06FI007T/DT	7L2D0404AALDT	2 x 0,75	G 2"	G 2"		40 - 21	90
GLT02-EV6/07FI011T/DT	7L2D0504AALDT	2 x 1,1	G 2"	G 2"		48 - 26	93
GLT02-EV6/08FI011T/DT	7L2D0604AALDT	2 x 1,1	G 2"	G 2"		54 - 28	96
GLT02-EV6/09FI011T/DT	7L2D0704AALDT	2 x 1,1	G 2"	G 2"		60 - 21	98
GLT02-EV6/10FI015T/DT	7L2D0804AALDT	2 x 1,5	G 2"	G 2"		69 - 37	100
GLT02-EV6/11FI015T/DT	7L2D0904AALDT	2 x 1,5	G 2"	G 2"		75 - 40	102
GLT02-EV6/12FI015T/DT	7L2D1004AALDT	2 x 1,5	G 2"	G 2"		81 - 43	105
GLT02-EV6/13FI015T/DT	7L2D1104AALDT	2 x 1,5	G 2"	G 2"		87 - 45	106
GLT02-EV6/14FI022T/DT	7L2D1204AALDT	2 x 2,2	G 2"	G 2"		97 - 53	110
GLT02-EV6/15FI022T/DT	7L2D1304AALDT	2 x 2,2	G 2"	G 2"		103 - 56	111
GLT02-EV6/16FI022T/DT	7L2D1404AALDT	2 x 2,2	G 2"	G 2"		110 - 59	112
GLT02-EV6/17FI022T/DT	7L2D1504AALDT	2 x 2,2	G 2"	G 2"		116 - 62	115
GLT02-EV6/18FI022T/DT	7L2D1604AALDT	2 x 2,2	G 2"	G 2"		122 - 65	118
GLT02-EV6/19FI030T/DT	7L2D1704AALDT	2 x 2,2	G 2"	G 2"		128 - 68	120
GLT02-EV6/20FI030T/DT	7L2D1804AALDT	2 x 3	G 2"	G 2"		140 - 77	121
GLT02-EV6/21FI030T/DT	7L2D1904AALDT	2 x 3	G 2"	G 2"		146 - 80	125
GLT02-EV10/03FI011T/DT	7L2E0104AALDT	2 x 1,1	G 2" ½	G 2" ½	6,0 - 14	28 - 13	97
GLT02-EV10/04FI015T/DT	7L2E0204AALDT	2 x 1,5	G 2" ½	G 2" ½		37 - 18	104
GLT02-EV10/05FI015T/DT	7L2E0304AALDT	2 x 1,5	G 2" ½	G 2" ½		45 - 22	110
GLT02-EV10/06FI022T/DT	7L2E0404AALDT	2 x 2,2	G 2" ½	G 2" ½		56 - 27	112
GLT02-EV10/07FI022T/DT	7L2E0504AALDT	2 x 2,2	G 2" ½	G 2" ½		64 - 31	114
GLT02-EV10/08FI030T/DT	7L2E0604AALDT	2 x 3	G 2" ½	G 2" ½		76 - 38	120
GLT02-EV10/09FI030T/DT	7L2E0704AALDT	2 x 3	G 2" ½	G 2" ½		85 - 42	122
GLT02-EV10/10FI040T/DT	7L2E0804AALDT	2 x 4	G 2" ½	G 2" ½		96 - 49	150
GLT02-EV10/11FI040T/DT	7L2E0904AALDT	2 x 4	G 2" ½	G 2" ½		105 - 53	152
GLT02-EV10/12FI040T/DT	7L2E1004AALDT	2 x 4	G 2" ½	G 2" ½		114 - 57	153
GLT02-EV10/13FI040T/DT	7L2E1104AALDT	2 x 4	G 2" ½	G 2" ½		123 - 62	155
GLT02-EV10/15FI055T/DT	7L2E1204AALDT	2 x 5,5	G 2" ½	G 2" ½		143 - 72	212
GLT02-EV15/03FI022T/DT	7L250204AALDT	2 x 3	G 3"	G 3"	8,0 - 24	37 - 13	135
GLT02-EV15/04FI030T/DT	7L250304AALDT	2 x 4	G 3"	G 3"		50 - 18	150
GLT02-EV15/05FI040T/DT	7L250404AALDT	2 x 4	G 3"	G 3"		65 - 28	185
GLT02-EV15/06FI055T/DT	7L250504AALDT	2 x 5,5	G 3"	G 3"		80 - 37	195
GLT02-EV15/07FI055T/DT	7L250604AALDT	2 x 5,5	G 3"	G 3"		93 - 43	211
GLT02-EV15/08FI075T/DT	7L250704AALDT	2 x 7,5	G 3"	G 3"		106 - 48	225
GLT02-EV15/09FI075T/DT	7L250804AALDT	2 x 7,5	G 3"	G 3"		118 - 54	255
GLT02-EV15/10FI110T/DT	7L250904AALDT	2 x 11	G 3"	G 3"		134 - 63	260
GLT02-EV20/03FI030T/DT	7L260204AALDT	2 x 3	G 3"	G 3"	10 - 28	41 - 17	135
GLT02-EV20/04FI040T/DT	7L260304AALDT	2 x 4	G 3"	G 3"		56 - 25	150
GLT02-EV20/05FI055T/DT	7L260404AALDT	2 x 5,5	G 3"	G 3"		71 - 33	185
GLT02-EV20/06FI075T/DT	7L260504AALDT	2 x 7,5	G 3"	G 3"		86 - 42	205
GLT02-EV20/07FI075T/DT	7L260604AALDT	2 x 7,5	G 3"	G 3"		100 - 48	225
GLT02-EV20/08FI110T/DT	7L260704AALDT	2 x 11	G 3"	G 3"		116 - 58	250
GLT02-EV20/09FI110T/DT	7L260804AALDT	2 x 11	G 3"	G 3"		130 - 65	260
GLT02-EV20/10FI110T/DT	7L260904AALDT	2 x 11	G 3"	G 3"		144 - 71	270

* The Hydraulic performances refer to the single electric pump

DrivE-Tech

DRIVE-TECH MINI

The DrivE-Tech MINI is an easy-to-use, versatile and highly featured variable frequency drive. It can be used in a wide range of pumping applications, from the residential household constant pressure control to light commercial multi-pump pressure boosting. Combined with specifically designed features, mobile app with remote control and a robust IP66, outdoor-rated, enclosure the Drive-Tech MINI improves, controls and protects surface or submersible pumping systems.

FEATURES & BENEFITS



CONFIGURATION

- Compatible with three-phase induction or permanent magnet motors
- Available in 1~230V IN / 3~230V OUT or 3~400V IN / 3~400V OUT
- Easy setup with multi level user access and presets
- Programmable Input/Output terminal options
- Outdoor rated IP66 enclosure for use in harsh environments
- Direct wall mount and surface pump mounting
- Low harmonic drive design to meet EN61000-3-12
- Integrated Input filter for use in first environment C1 EN61800-3

APPLICATION-SPECIFIC FEATURES

- Pump specific features, including: constant water pressure, flow, level control
- Multi pump operation controlling a second pump at constant speed
- Combo operation connecting up to 8 DrivE-Tech MINI units
- Alternating pump mode
- Surface or submersible pump cascading
- Constant speed mode with 2 setpoints

OPERATION

- Integrated multi row OLED display showing alarms, pump speed, set point and more
- Fully controllable through Unyconnect mobile app
- Real-time fault logging with date and time stamps
- MPPT control for PV-panel powered solar pumping applications
- Multi power operation allows to use AC and DC supply voltage

PROTECTION

- Protection against short circuit, surges, underload, overload, drive overheat, undervoltage, overvoltage, phase loss, phase imbalance, overpressure, sensor fault, etc.
- Pump dry run
- Locked rotor or pump

COMMUNICATION

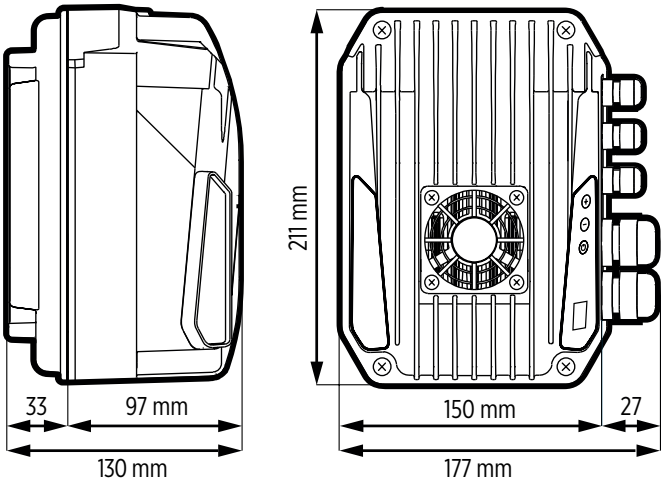
- RS-485 Communications (Modbus) multi pump operation, remote control and monitoring
- Bluetooth connectivity with Unyconnect mobile app
- Bridge mode using 2 smartphones and GSM/Wifi connection for permanent remote control
- Communications for multi-drive operations up to 8 VFDs

DRIVE-TECH MINI

MODELS

Drive type	Drive model no.	IP	V_{IN} [V]	I_{OUT} [A]	Dimensions [mm]	Weight [kg]
DT MINI 2.005 M/T	002149005	66	1x220-240	3	150 x 211 x 130	2.5
DT MINI 2.011 M/T	002149112	66	1x220-240	5	150 x 211 x 130	2.5
DT MINI 2.015 M/T	002149152	66	1x220-240	7.5	150 x 211 x 130	2.5
DT MINI 2.022 M/T	314000170	66	1x220-240	8.5	150 x 211 x 130	2.5
DT MINI 4.011 T/T	314000162	66	3x380-460	4	150 x 211 x 130	2.5
DT MINI 4.022 T/T	314000163	66	3x380-460	6	150 x 211 x 130	2.5
DT MINI 4.040 T/T	314000164	66	3x380-460	10.5	150 x 211 x 130	2.5

DIMENSIONS



DRIVE-TECH COMPACT

The DrivE-Tech COMPACT is designed and delveloped to maintain existing features of the Drive-Tech MINI while extending the operation range up to 22 kW. It is dedicated to improving submersible or surface pumping systems in many different applications like municipal water supply, irrigation, commercial pressure boosting, HVAC and many more. The combination of high feature set, an extended operation range and compact while robust enclosure design, makes it ideal for nearly any stand-alone decentralized pumping application.

FEATURES & BENEFITS



CONFIGURATION

- Compatible with three-phase induction or permanent magnet motors
- Available in 1~230V IN / 3~230V OUT or 3~400V IN / 3~400V OUT
- Optional integrated plug-in output filter card
- Low harmonic drive design to meet EN61000-3-12
- Integrated Input filter for use in first environment C1 EN61800-3
- Easy setup with multi level user access and presets
- Programmable Input/Output terminal options
- Outdoor rated IP66 enclosure for use in harsh environments
- Direct wall mount and surface pump mounting

APPLICATION-SPECIFIC FEATURES

- Pump specific features, including: constant water pressure, flow, level control
- Multi pump operation controlling a second pump at constant speed
- Alternating pump mode
- Surface or submersible pump cascading
- Constant speed mode with 2 setpoints

OPERATION

- Integrated multi row OLED display showing alarms, pump speed, set point and more
- Fully controllable through Unyconnect mobile app
- Real-time fault logging with date and time stamps
- MPPT control for PV-panel powered solar pumping applications
- Multi power operation allows to use AC and DC supply voltage

PROTECTION

- Protection against short circuit, surges, underload, overload, drive overheat, undervoltage, overvoltage, phase loss, phase imbalance, overpressure, sensor fault, etc.
- Pump dry run
- Locked rotor or pump

COMMUNICATION

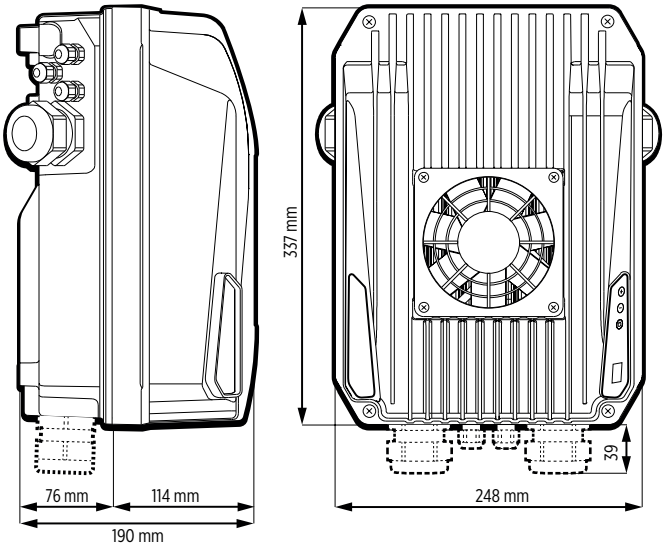
- RS-485 Communications (Modbus) multi pump operation, remote control and monitoring
- Bluetooth connectivity with Unyconnect mobile app
- Bridge mode using 2 smartphones and GSM/Wifi connection for permanent remote control
- Communications for multi-drive operations up to 8 VFDs

DRIVE-TECH COMPACT

MODELS

Drive type	Drive model no.	IP	V_{IN} [V]	I_{OUT} [A]	Dimensions [mm]	Weight [kg]
DT COMPACT 2.022 M/T	002152090	66	1x220-240	9.5	248 x 337 x 190	10
DT COMPACT 2.030 M/T	002152120	66	1x220-240	12.5	248 x 337 x 190	10
DT COMPACT 2.040 M/T	002152180	66	1x220-240	18.5	248 x 337 x 190	10
DT COMPACT 4.055 T/T	002150140	66	3x380-460	14	248 x 337 x 190	10
DT COMPACT 4.075 T/T	002150180	66	3x380-460	18	248 x 337 x 190	10
DT COMPACT 4.110 T/T	002150250	66	3x380-460	25	248 x 337 x 190	10
DT COMPACT 4.150 T/T	002150300	66	3x380-460	30	248 x 337 x 190	10
DT COMPACT 4.185 T/T	002150380	66	3x380-460	38	248 x 337 x 190	10
DT COMPACT 4.220 T/T	002150440	66	3x380-460	44	248 x 337 x 190	10

DIMENSIONS



DRIVE-TECH MINI / DRIVE-TECH COMPACT

SPECIFICATION

Mains Connection	Input voltage		1ph 220-240 V; 3ph 380-460 V	
	Input frequency		50-60 Hz (+/- 2%)	
	Displacement power factor (cosphi) near unity		> 0.98	
Motor controls	Control methods		V/F and SVC (Sensorless Vector Control)	
	Control type		PWM (pulse width modulation)	
	Frequency Setting Resolution		Digital Reference: 0.01 Hz	
	Frequency Accuracy		Digital: 0.01 % of Max. Output Frequency	
	V/F Control Curve		Adjustable V/F curve	
	Maximum Output Frequency		1ph 220-240 V models: 300 Hz; 3ph 380- 460VAC models: 300 Hz	
	Overload Capacity		110% of VFD rated current for 1 minute during every 5 minutes of operation	
Protection	Operation Method		Keypad / Terminals / RS-485 Modbus Communication / Bluetooth Mobile App control	
	Analog Input		4 Analog Inputs (2x 0- 10VDC) (2x 4- 20 mA)	
	By Digital Inputs	Start Signal	Forward, Reverse	
		Stop Signal	Motor ramp down	
		Digital Input	4 programmable digital inputs (Normally Open / Normally Closed), motor run, motor stop	
		Fault Reset	Resets VFD faults via keypad, digital input or communication. Some critical faults can only be reset by cycling the VFD power.	
	Outputs	2x Multi-Function Outputs	2 programmable digital outputs (NO, NC), motor run signal, alarm signal / Status Relay (Motor running) / Alarm Relay (Fault)	
		RS 485 Serial Port	Output Frequency, Output Current, Output Voltage, Output kW, DC Link Voltage	
	General Operation Functions		Frequency Limit, Jump Frequencies, 2nd ACC/DEC, Auto Restart, Auto-Tuning, PID w/sleep, Temperature Foldback, Run Delay, Minimum Run Timer, PM Motor Control and Auto-Tuning	
	Pump Operation Functions/Protections		Sleep Mode, Pipe Fill, PID, Overpressure, Dry Run (Underload), HLD (High Load), Broken Pipe, No-Flow Protection	
	VFD Fault Trips		Over Voltage, Low Voltage, Over Current, Overload, Short Circuit, Ground Fault, VFD Overheat, Input Phase Loss, Signal Loss, Hardware Fault, etc.	
	Motor Overload		Adjustable electronic motor overload protection	
	Motor temperature		3-wire PT100 motor temperature protection (on request)	
	Overcurrent		220-240 VAC variable torque: at 110% of VFD rated current 380-460 VAC variable torque: at 110% of VFD rated current	
	Overvoltage		380-460 VAC models: at 820VDC DC bus voltage	
	Overtemperature		Built-in IGBT and capacitor bank temperature sensors	
	VFD Alarm		Stall Prevention at ACC and DEC, Overload, Thermal Sensor Fault, Capacitors High Temperature, Signal Loss, Overpressure, Underload, High Load, etc.	
Keypad Display	Operation Information		Output Frequency, Output Current, Output Voltage, Frequency Reference, Operating Speed, DC Voltage, kWattmeter, Run-time, Last Trip Time, Pressure, etc.	
	Fault		Provides 6 fault records and logs 30 faults	
Environment	Operating Temperature		-10 °C ~ 40 °C	
	Storage temperature		-10 °C ~ 60 °C	
	Ambient Humidity		up to 95 % RH. (non-condensing)	
	Altitude		Normal up to (1000 m), -1% derating every 100 m	
	Vibration and Impact		Complies with EN 60068-2-6:2008 and EN60068-2-27:2009 and EN60068-2-64:2008	
	Enclosure Ratings		IP66	
Max. Input efficiency (>=X%)	Drive model		DrivE-Tech MINI	DrivE-Tech COMPACT
	Input voltage	220-240 AC	95	95
		380-460 VAC	96	97
	CE Low Voltage		EN6100-5-1	
	CE EMC		EN61800-3, EN61000-3-12, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-6-2, IEC61000-6-4	
	Other		C-Tick, ROHS	

DRIVE-TECH

The DrivE-Tech series has been designed to optimize, control and protect your pumping system. It can be used with different pump types such as vertical multistage, centrifugal or submersible pumps, operating in many different applications up to 130 kW.

FEATURES & BENEFITS

CONFIGURATION

- Compatible with three-phase induction or permanent magnet motors
- Available in 1~230V IN / 3~230V OUT or 3~400V IN / 3~400V OUT
- Setup and parameter adjustments through multi row display and user interface
- Low harmonic drive design to meet EN61000-3-12
- Integrated Input filter for use in first environment C1 EN61800-3
- Easy setup with multi level user access and presets
- Programmable Input/Output terminal options
- Robust IP54/55 enclosure rating
- Direct wall mount and surface pump mounting





APPLICATION-SPECIFIC FEATURES

- Pump specific features including: constant water pressure, flow, level control
- Multi pump operation controlling a second pump at constant speed
- Combo operation connecting up to 8 DrivE-Tech units
- Alternating pump mode
- Surface or submersible pump cascading
- Constant speed mode with 2 setpoints

OPERATION

- Integrated multi row display allows to select and adjust individual parameter settings
- Fully controllable through Unyconnect mobile app
- Real-time fault logging with date and time stamps
- MPPT control for PV-panel powered solar pumping applications
- Multi power operation allows to use AC and DC supply voltage

PROTECTION

- Protection against short circuit, surges, underload, overload, drive overheat, undervoltage, overvoltage, phase loss, phase imbalance, overpressure, sensor fault, etc.
- Pump dry run
- Locked rotor or pump

COMMUNICATION

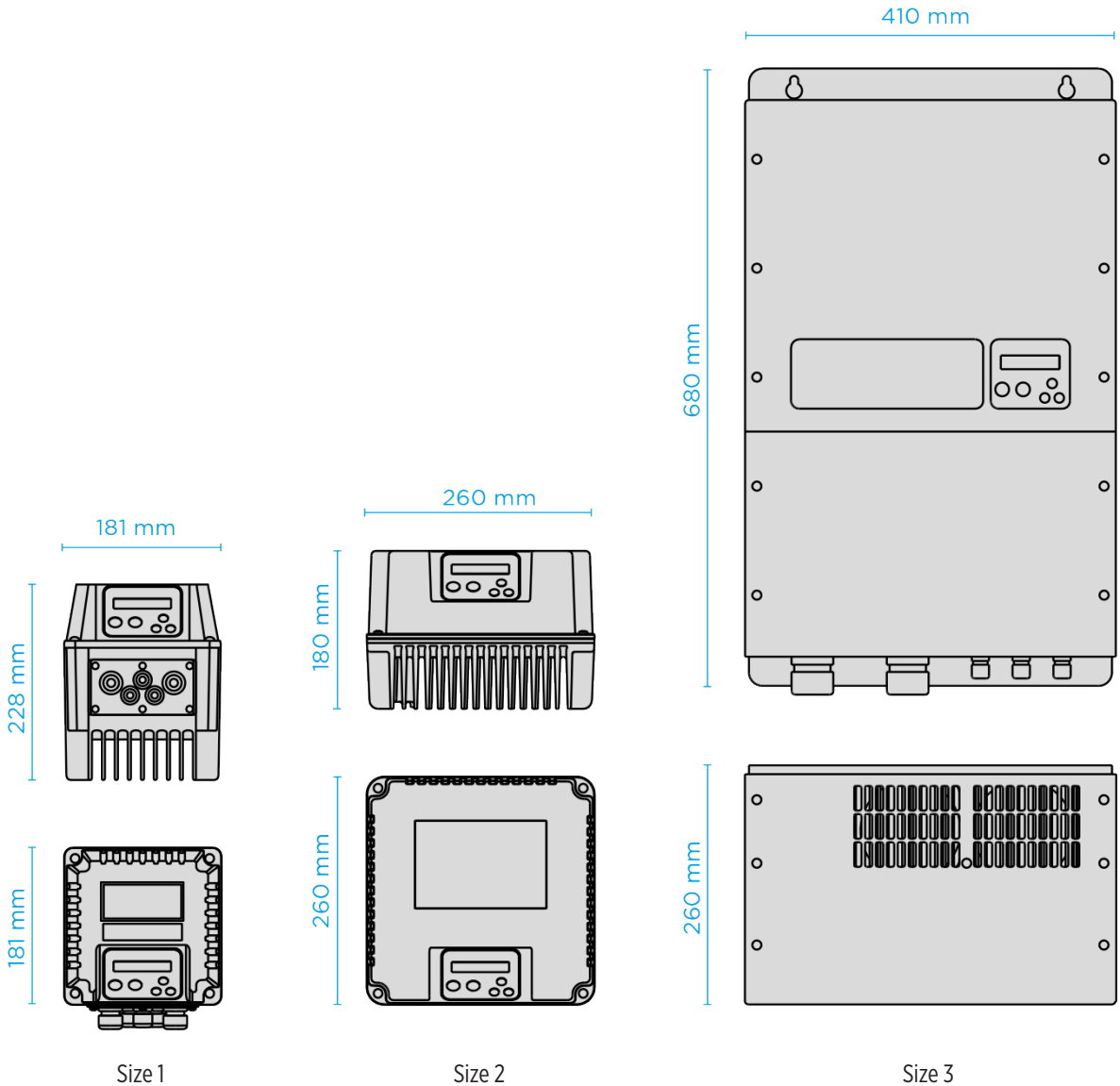
- RS-485 Communications (Modbus) multi pump operation, remote control and monitoring
- Bluetooth connectivity with Unyconnect mobile app
- Bridge mode using 2 smartphones and GSM/Wifi connection for permanent remote control
- Communications for multi-drive operations up to 8 VFDs

DRIVE-TECH

MODELS

Drive type	Drive model no.	IP	V_{IN} [V]	I_{OUT} [A]	Dimensions [mm]	Weight [kg]	Frame size
DRIVE-TECH 4.022	002149022	55	3x380-460	6	181 x 181 x 228	4.4	1
DRIVE-TECH 4.040	002149041	55	3x380-460	9	181 x 181 x 228	4.4	1
DRIVE-TECH 4.055	002149055	55	3x380-460	14	260 x 260 x 180	7	2
DRIVE-TECH 4.075	002149075	55	3x380-460	18	260 x 260 x 180	7	2
DRIVE-TECH 4.110	002149110	55	3x380-460	25	260 x 260 x 180	7	2
DRIVE-TECH 4.150	002149150	55	3x380-460	30	260 x 260 x 180	7.2	2
DRIVE-TECH 4.185	002149185	54	3x380-460	38	410 x 680 x 260	33	3
DRIVE-TECH 4.220	002149220	54	3x380-460	48	410 x 680 x 260	33	3
DRIVE-TECH 4.300	002149300	54	3x380-460	65	410 x 680 x 260	34	3
DRIVE-TECH 4.370	002149370	54	3x380-460	75	410 x 680 x 260	34	3
DRIVE-TECH 4.450	002149450	54	3x380-460	85	410 x 680 x 260	34	3

DIMENSIONS



Size 1 Size 2 Size 3

DRIVE-TECH

SPECIFICATION

Mains Connection	Input voltage		1ph 220-240 V; 3ph 380-460 V
	Input frequency		50-60 Hz (+/- 2%)
	Displacement power factor (cosphi) near unity		> 0.98
Motor controls	Control methods		V/F and SVC (Sensorless Vector Control)
	Control type		PWM (pulse width modulation)
	Frequency Setting Resolution		Digital Reference: 0.01 Hz
	Frequency Accuracy		Digital: 0.01 % of Max. Output Frequency
	V/F Control Curve		Adjustable V/F curve
	Maximum Output Frequency		1ph 220-240 V models: 300 Hz; 3ph 380- 460VAC models: 300 Hz
	Overload Capacity		110% of VFD rated current for 1 minute during every 5 minutes of operation
Protection	Operation Method		Keypad / Terminals / RS-485 Modbus Communication / Bluetooth Mobile App control
	Analog Input		4 Analog Inputs (2x 0- 10VDC) (2x 4- 20 mA)
	By Digital Inputs	Start Signal	Forward, Reverse
		Stop Signal	Motor ramp down
		Digital Input	4 programmable digital inputs (Normally Open / Normally Closed), motor run, motor stop
		Fault Reset	Resets VFD faults via keypad, digital input or communication. Some critical faults can only be reset by cycling the VFD power.
		Safety Inputs	SCM and STO terminals for safety circuit wiring
	Outputs	2x Multi-Function Outputs	2 programmable digital outputs (NO, NC), motor run signal, alarm signal Status Relay (Motor running) / Alarm Relay (Fault)
		Status Relay (Motor running) / Alarm Relay (Fault)	2x Digital Relay Output (NO, NC) D.O.L pump 1 / D.O.L pump 2
		RS 485 Serial Port	Output Frequency, Output Current, Output Voltage, Output kW, DC Link Voltage
	General Operation Functions		Frequency Limit, Jump Frequencies, 2nd ACC/DEC, Auto Restart, Auto-Tuning, PID w/sleep, Temperature Foldback, Run Delay, Minimum Run Timer, PM Motor Control and Auto-Tuning
	Pump Operation Functions/Protections		Sleep Mode, Pipe Fill, PID, Overpressure, Dry Run (Underload), HLD (High Load), Broken Pipe, No-Flow Protection
	VFD Fault Trips		Over Voltage, Low Voltage, Over Current, Overload, Short Circuit, Ground Fault, VFD Overheat, Input Phase Loss, Signal Loss, Hardware Fault, etc.
	Motor Overload		Adjustable electronic motor overload protection
	Overcurrent		220-240 VAC variable torque: at 110% of VFD rated current 380-460 VAC variable torque: at 110% of VFD rated current
	Overvoltage		380-460 VAC models: at 820VDC DC bus voltage
	Overtemperature		Built-in IGBT and capacitor bank temperature sensors
	Restart After IPF		Adjustable power loss duration up to 20 sec. Leakage current is greater than 50 % of rated current of the drive.
	VFD Alarm		Stall Prevention at ACC and DEC, Overload, Thermal Sensor Fault, Capacitors High Temperature, Signal Loss, Overpressure, Underload, High Load, etc.
Keypad Display	Operation Information		Output Frequency, Output Current, Output Voltage, Frequency Reference, Operating Speed, DC Voltage, kWattmeter, Run-time, Last Trip Time, Pressure, etc.
	Fault		Provides active fault/alarm
Environment	Operating Temperature		-10 °C ~ 40 °C
	Storage temperature		-10 °C ~ 60 °C
	Ambient Humidity		up to 95 % RH. (non-condensing)
	Altitude		Normal up to (1000 m), -1% derating every 100 m
	Vibration and Impact		Comply with EN 60068-2-6:2008, EN60068-2-27:2009 and EN60068-2-64:2008
	Enclosure Ratings		IP54, IP55
Max. Input efficiency (>=X%)	Input voltage	220-240 AC	94
		380-460 VAC	97
	CE Low Voltage		EN6100-5-1
	CE EMC		EN61800-3, EN61000-3-12, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-6-2, IEC61000-6-4
	Other		C-Tick, ROHS

NOTES



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