

VFD 230V MOS Research and development activities



Category	Description	Complete	Pending	In collaboration
Development	"Sensorless closed loop field-oriented control" of permanent magnet synchronous motors	v		
Development	"Hardware 'heatpump shutdown' input"	v		
Development	Active Power Factor Correction running	v		
Development	First prototype running	v		
Development	Heating compressor oil via special VFD function		v	
Development	Increased EMC standard (-6 dB) compliance		v	
Procurement	Dual sourcing strategy; China and EU/NATO region		v	
Assembly / Testing	Local assembly. In-house testing		v	
Certification	Prepare design for EN60335 certification		v	
Certification	FMEA rapportage		v	
Assembly / Testing	Specific testing requirements			v
Development	Specification of rated power in accordance with the new 'EcoDesign' regulations			v
Development	Prepare design for refrigerant R290 (propane)			v
Development	Real-time monitoring of energy consumption			v
Development	Powering the total heat pump via active Power Factor Correction			v
Development	Final prototype running			v