FUNCTION\_BLOCK Drive1Wiring

VAR\_INPUT

sensorLimit: BOOL;

driveId: INT;

actualId: INT;

safety: BOOL;

modeKey: BOOL;

start: BOOL;

fastShift: BOOL;

startMan: BOOL;

maxHz: REAL := 50.0;

speed: REAL := 10.0;

speedMan: REAL := 10.0;

speedActual: DINT;

END\_VAR

VAR\_OUTPUT

startOut: BOOL;

running: BOOL;

speedOut: DINT;

END\_VAR

VAR

TonSafety: TON;

END\_VAR

TonSafety(IN := safety, PT := T#3S);

IF TonSafety.Q THEN

IF modeKey THEN // AUTOMATIC

startOut := start;

ELSE // MANUAL

IF driveId = actualId THEN

startOut := startMan;

ELSE

startOut := FALSE;

END\_IF

END\_IF

ELSE

startOut := FALSE;

END\_IF

IF sensorLimit THEN

startOut:=FALSE;

END\_IF

IF modeKey THEN

// speed AUTO

IF fastShift THEN

speedOut := REAL\_TO\_WORD(speed \* 15);

ELSE

speedOut := REAL\_TO\_WORD(speed \* 8);

END\_IF;

ELSE

// speed MAN

speedOut := REAL\_TO\_WORD(speedMan \* 15);

END\_IF;

IF speedActual > 150 THEN

running := TRUE;

ELSE

running := FALSE;

END\_IF;